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TERMINAL (ENTER 1, 2, 3, OR ?):2

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FILE 'HOME' ENTERED AT 11:46:18 ON 09 MAR 2005

=> file registry
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:46:37 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading C:\Program Files\Stnexp\Queries\Application queries\10715493.str

Mass Spectrum Fragmentation Diagram:

- Top fragment: 53
- Middle fragment: 52, 54
- Left fragment: 21, 18, 17, 15, 14, 13, 22, 19, 16, 12, 24
- Bottom fragment: 11, 8, 5, 1, 10, 9, 6, 4, 3, 2, 55, 57, 56
- Right fragment: 45, 44, 42, 41, 39, 38, 37, 46, 43, 40, 36, 64, 51, 50, 48, 49, 23, 24, 35, 32, 29, 25, 34, 33, 31, 30, 28, 27, 26, 61, 63, 62

chain nodes :
 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63
 ring nodes :
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
 45 46 47 64
 chain bonds :
 6-55 17-52 23-48 30-61 41-58 48-49 49-50 50-51 51-64 52-53 53-54 55-56
 56-57 58-59 59-60 61-62 62-63
 ring bonds :
 1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13
 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22
 22-24 25-26 25-29 25-47 26-27 27-28 28-29 28-30 30-31 31-32 31-33 32-35
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 42-44 43-46 44-45 45-46 46-64
 exact/norm bonds :
 7-8 8-11 12-16 15-16 31-32 32-35 36-40 39-40
 exact bonds :
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 56-57 58-59 59-60 61-62 62-63
 normalized bonds :
 1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-9 9-10 10-11 11-24 12-13 12-23
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Match level :
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 47:Atom 48:CLASS 49:CLASS 50:CLASS 51:CLASS 52:CLASS 53:CLASS 54:CLASS
 55:CLASS 56:CLASS 57:CLASS 58:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS
 63:CLASS 64:Atom

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> s 12 sss full
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100.0% PROCESSED 426 ITERATIONS
 SEARCH TIME: 00.00.01

10 ANSWERS

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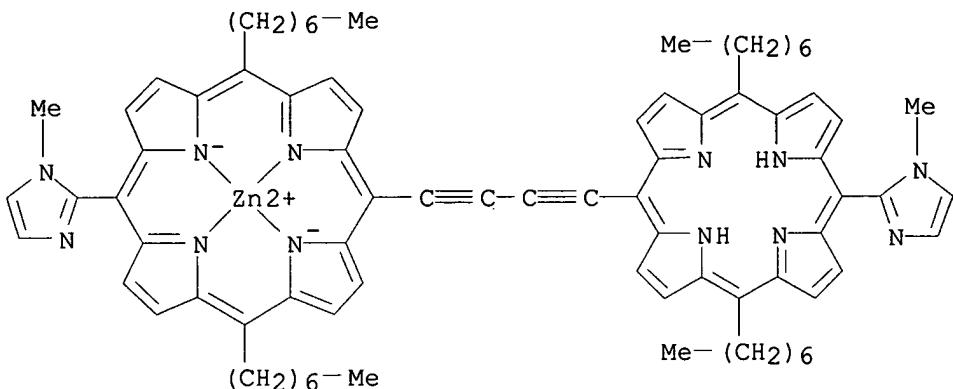
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 RN 694453-85-5 REGISTRY
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 MF C80 H88 N12 Zn
 CI CCS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN

RN 679402-88-1 REGISTRY

CN Zinc, [μ -[[tetra-2-propenyl 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphine-5,15-dipropanoato- κ N21, κ N22, κ N23, κ N24]](4-)] di-, homopolymer (9CI)
(CA INDEX NAME)

MF (C₇₆ H₆₂ N₁₂ O₈ Zn₂)_x

CI PMS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); PRP (Properties)

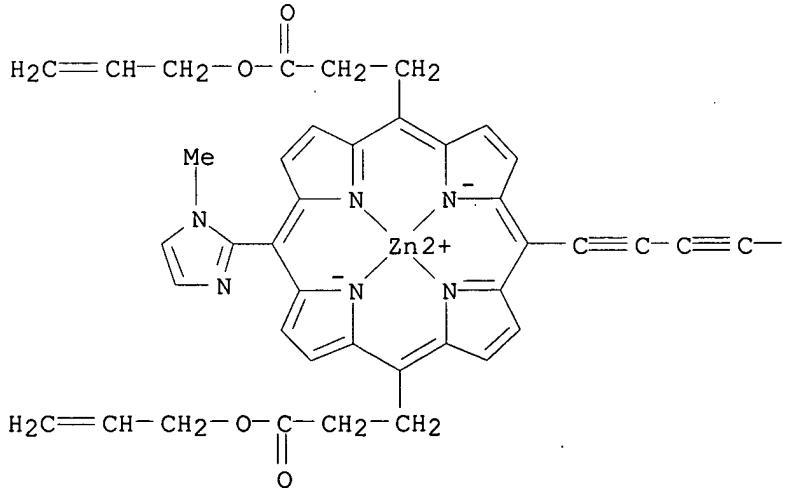
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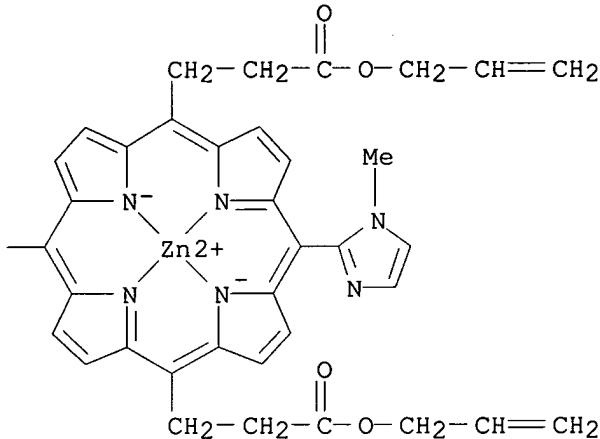
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CCI CCS

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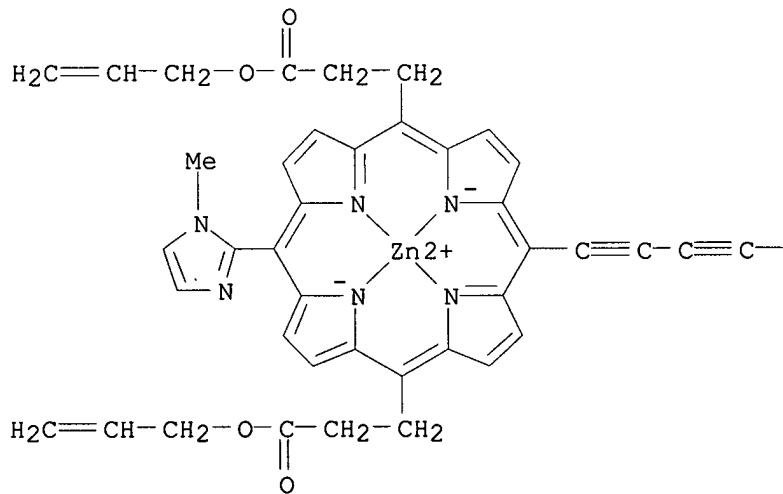
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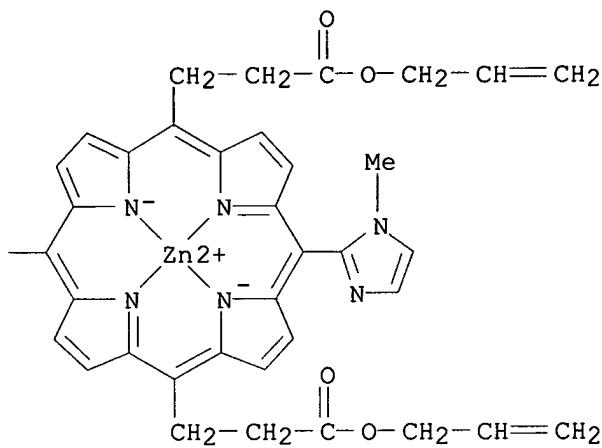


2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN
RN 679402-86-9 REGISTRY
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NAME)
MF C76 H62 N12 O8 Zn2
CI CCS, COM
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

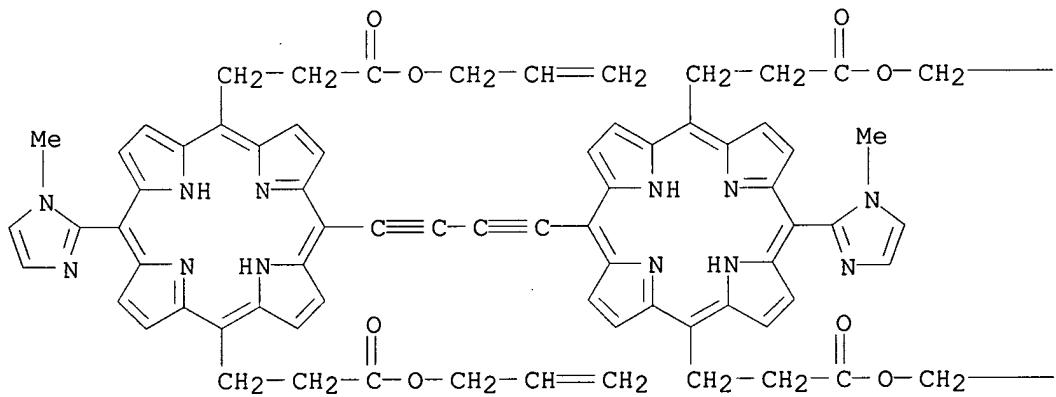
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 679402-83-6 REGISTRY
 CN 21H,23H-Porphine-5,15-dipropionic acid, 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-, tetra-2-propenyl ester (9CI)
 (CA INDEX NAME)
 MF C76 H66 N12 O8
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA CAplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



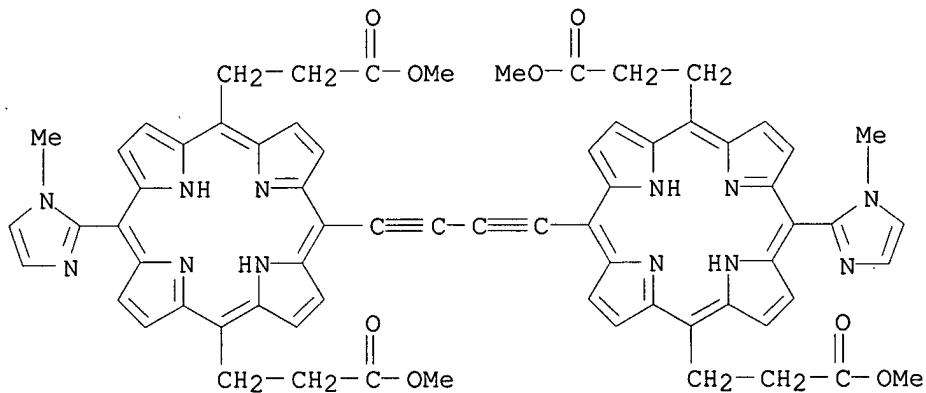
— CH=CH₂

— CH=CH₂

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 679402-81-4 REGISTRY
 CN 21H,23H-Porphine-5,15-dipropionic acid, 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-, tetramethyl ester (9CI) (CA INDEX NAME)
 MF C68 H58 N12 O8
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA CAplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 629668-91-3 REGISTRY
 CN Zinc, [μ-[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato-κN21,κN22,κN23,.κN24]](4-)]]bis(1-methyl-1H-imidazole-κN3)di- (9CI) (CA INDEX NAME)

MF C88 H98 N16 Zn2

CI CCS

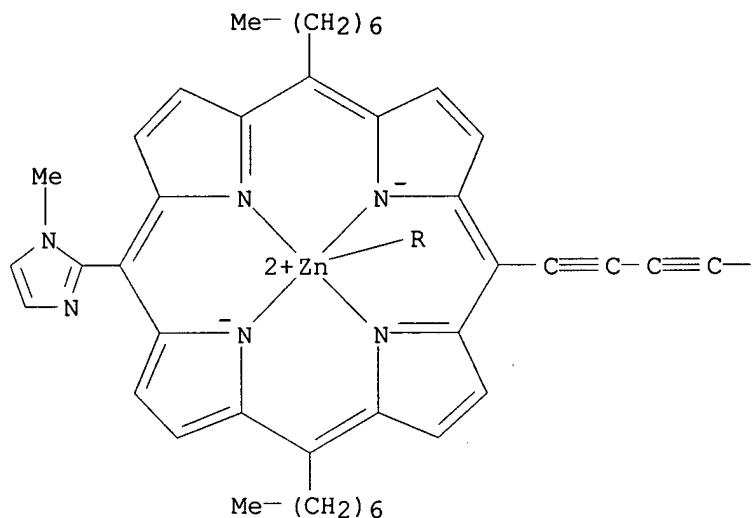
SR CA

LC STN Files: CA, CAPLUS

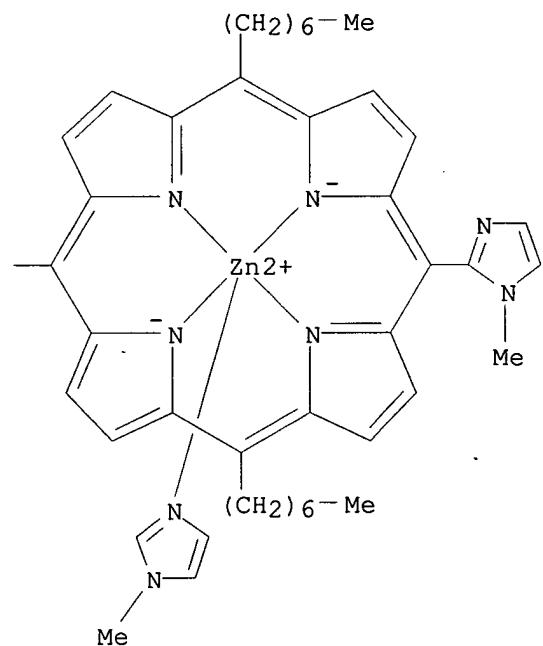
DT.CA CAplus document type: Journal

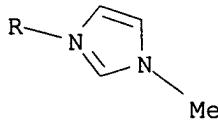
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

PAGE 1-A



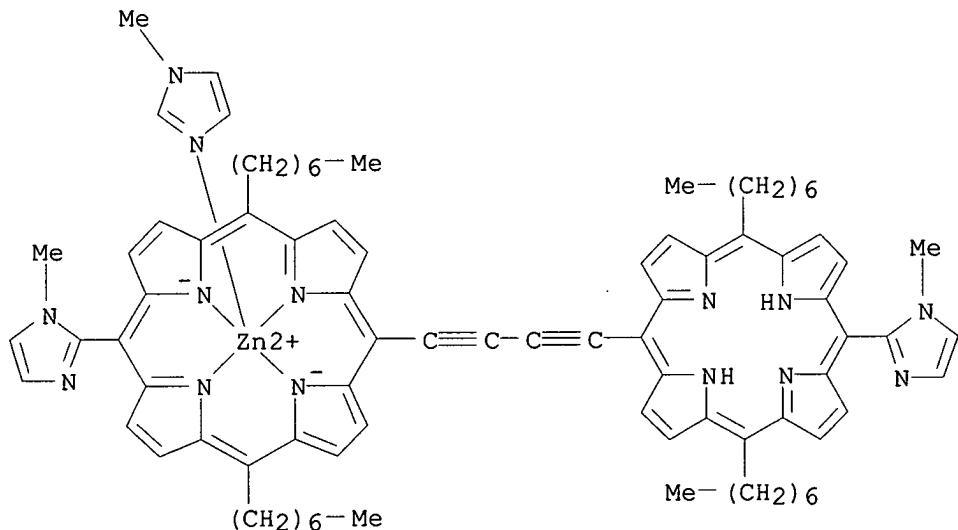
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

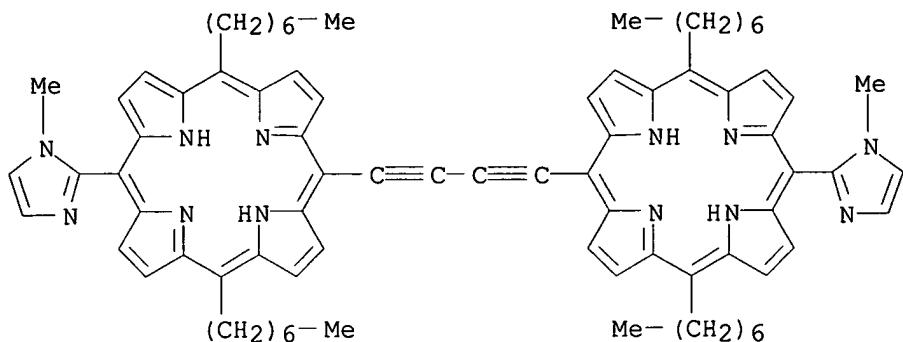
L3 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 629668-90-2 REGISTRY
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 MF C84 H94 N14 Zn
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

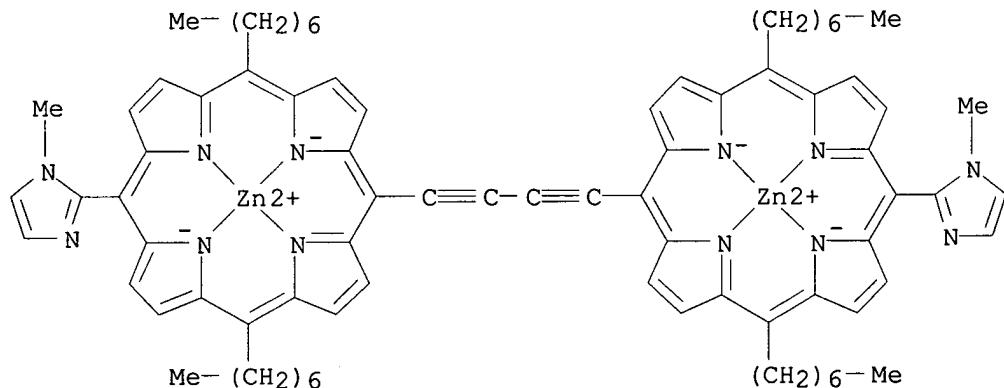
L3 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 629668-87-7 REGISTRY
 CN 21H,23H-Porphine, 5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 1,4-Bis[15-(1-methyl-2-imidazolyl)-10,20-diheptylporphyrin-5-yl]-1,3-butadiyne
 MF C80 H90 N12
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
 DT.CA CAplus document type: Journal; Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT

(Reactant or reagent)



3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN
RN 629668-86-6 REGISTRY
CN Zinc, $[\mu\text{-}[5,5'\text{-(1,3-butadiyne-1,4-diyl)}\text{bis[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato-\kappa N21,\kappa N22,\kappa N23,.kap pa.N24]](4-)]]\text{di-}$ (9CI) (CA INDEX NAME)
MF C80 H86 N12 Zn2
CI CCS
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

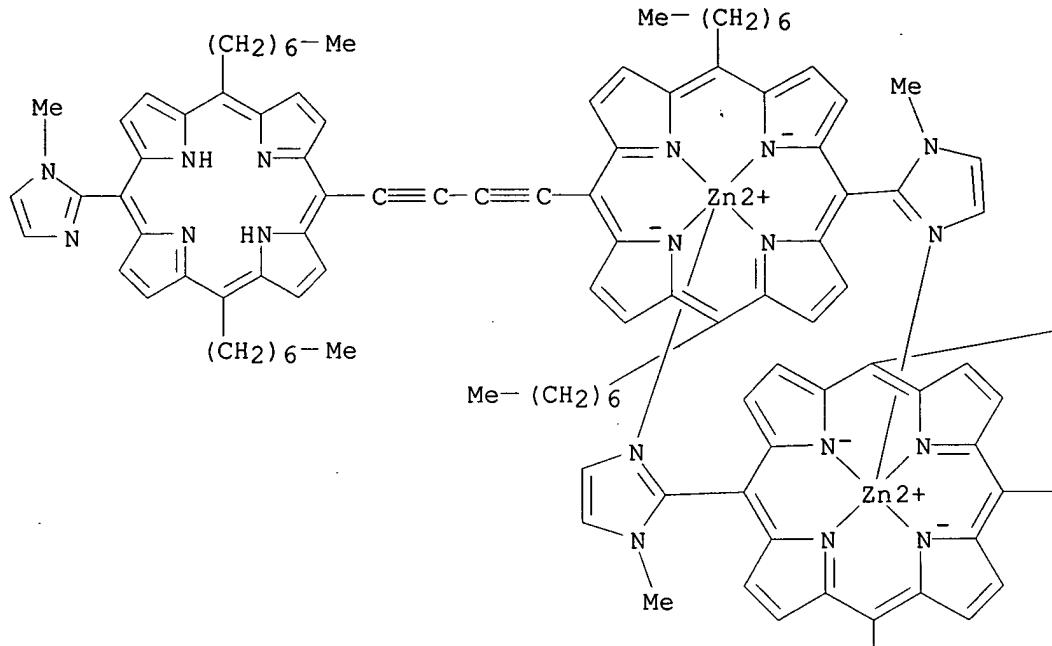


3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

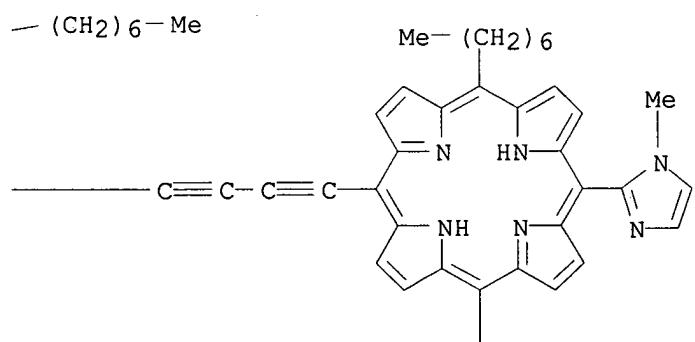
L3 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN
RN 629668-84-4 REGISTRY
CN Zinc, bis[$\mu\text{-}[5\text{-[4-[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphin-5-yl]-1,3-butadiynyl]-10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl-\kappa N3)-21H,23H-porphinato(2-)-\kappa N21,\kappa N22,\kappa N23,\kappa N24]\text{di-}$ (9CI) (CA INDEX NAME)
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CI CCS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); PRP (Properties)

RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT (Reactant or reagent)

PAGE 1-A



PAGE 1-B



PAGE 2-A

Me—(CH₂)₆

PAGE 2-B

Me—(CH₂)₆

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file registry			
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FULL ESTIMATED COST	ENTRY	SESSION	
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FILE 'REGISTRY' ENTERED AT 11:48:26 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

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Uploading C:\Program Files\Stnexp\Queries\Application queries\10715493b.str

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chain nodes :
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ring nodes :
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24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 52
chain bonds :
23-48 48-49 49-50 50-51 51-52
ring bonds :
1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13
12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22
22-24 25-26 25-29 25-47 26-27 27-28 28-29 28-30 30-31 31-32 31-33 32-35
33-34 34-35 35-52 36-37 36-40 36-47 37-38 38-39 39-40 39-41 41-42 42-43
42-44 43-46 44-45 45-46 46-52
exact/norm bonds :
7-8 8-11 12-16 15-16 31-32 32-35 36-40 39-40
exact bonds :
23-48 48-49 49-50 50-51 51-52
normalized bonds :
1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-9 9-10 10-11 11-24 12-13 12-23
13-14 14-15 15-17 17-18 18-19 18-20 19-22 20-21 21-22 22-24 25-26 25-29
25-47 26-27 27-28 28-29 28-30 30-31 31-33 33-34 34-35 35-52 36-37 36-47
37-38 38-39 39-41 41-42 42-43 42-44 43-46 44-45 45-46 46-52

Match level :
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47:Atom 48:CLASS 49:CLASS 50:CLASS 51:CLASS 52:Atom

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L4 STRUCTURE UPLOADED

=> que L4

L5 QUE L4

=> s 15 sss full
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100.0% PROCESSED 426 ITERATIONS 101 ANSWERS
 SEARCH TIME: 00.00.01

L6 101 SEA SSS FUL L4

=> file registry	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	162.19	342.99

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

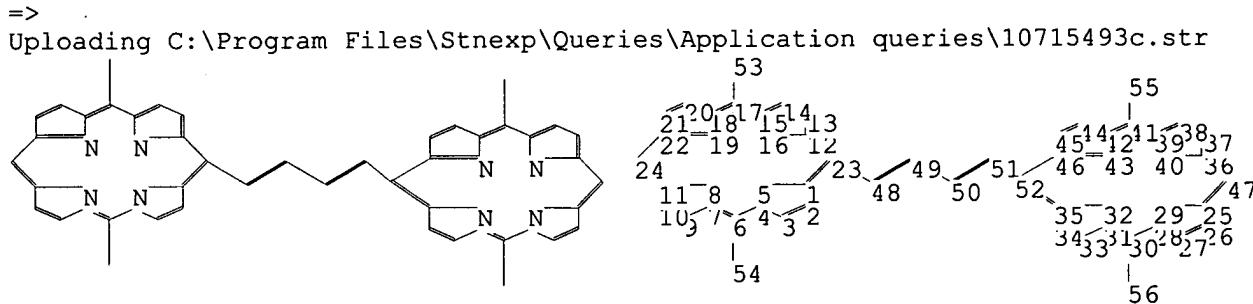
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end



chain nodes :
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ring nodes :
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24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 52
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ring bonds :
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42-44 43-46 44-45 45-46 46-52
exact/norm bonds :
7-8 8-11 12-16 15-16 31-32 32-35 36-40 39-40
exact bonds :
6-54 17-53 23-48 30-56 41-55 48-49 49-50 50-51 51-52
normalized bonds :
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13-14 14-15 15-17 17-18 18-19 18-20 19-22 20-21 21-22 22-24 25-26 25-29
25-47 26-27 27-28 28-29 28-30 30-31 31-33 33-34 34-35 35-52 36-37 36-47
37-38 38-39 39-41 41-42 42-43 42-44 43-46 44-45 45-46 46-52

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
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38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom
47:Atom 48:CLASS 49:CLASS 50:CLASS 51:CLASS 52:Atom 53:CLASS 54:CLASS
55:CLASS 56:CLASS

L7 STRUCTURE UPLOADED

=> que L7

L8 QUE L7

=> s 18 sss full
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FULL SCREEN SEARCH COMPLETED - 426 TO ITERATE

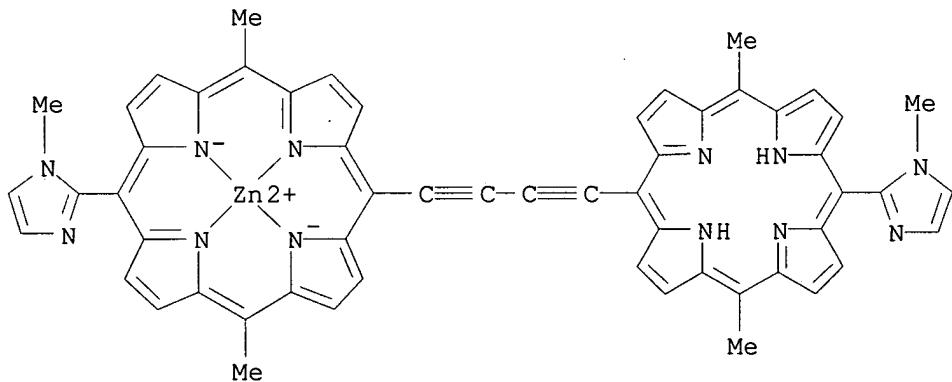
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15 ANSWERS

L9 15 SEA SSS FUL L7

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RN 836627-44-2 REGISTRY
CN INDEX NAME NOT YET ASSIGNED
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SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)

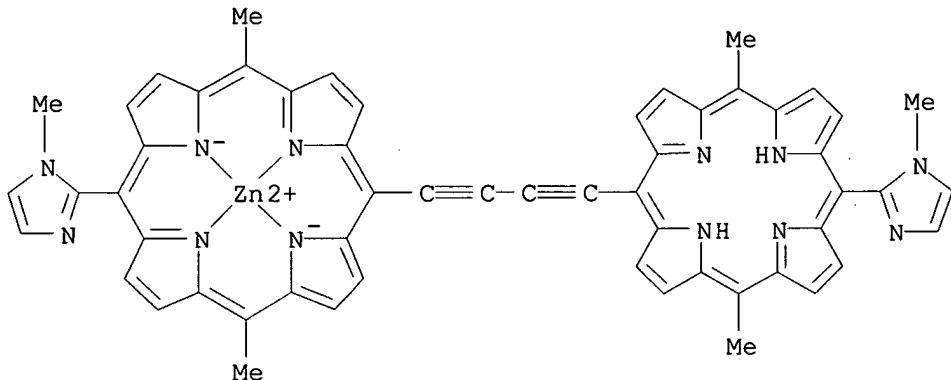


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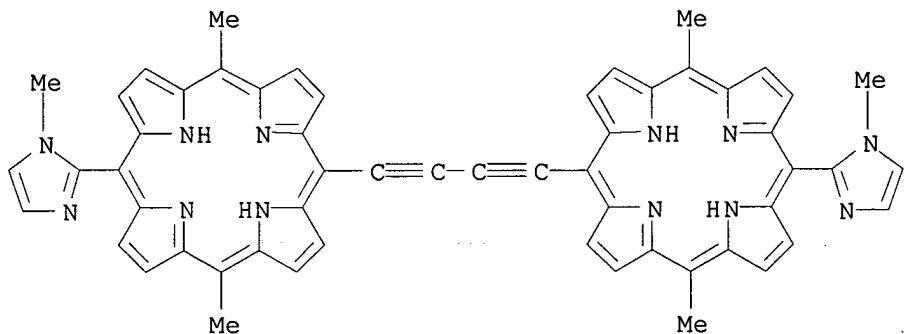
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CN INDEX NAME NOT YET ASSIGNED
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LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L9 ANSWER 2 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
RN 836624-16-9 REGISTRY
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SR CA
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DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



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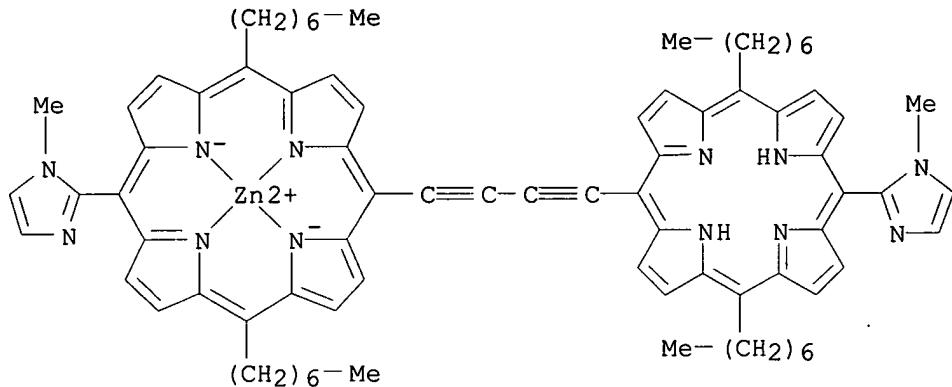
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MF C80 H88 N12 Zn
CI CCS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L9 ANSWER 4 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN

RN 679402-88-1 REGISTRY

CN Zinc, [μ -[[tetra-2-propenyl 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphine-5,15-dipropanoato- κ N21, κ N22, κ N23, κ N24]](4-)] di-, homopolymer (9CI)
(CA INDEX NAME)

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CI PMS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); PRP (Properties)

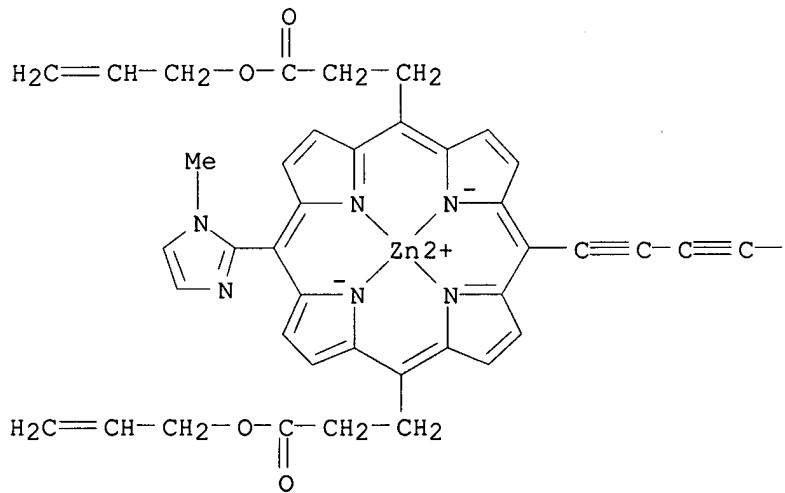
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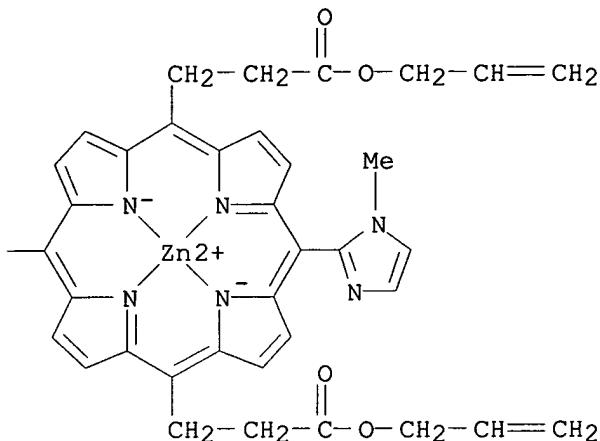
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CCI CCS

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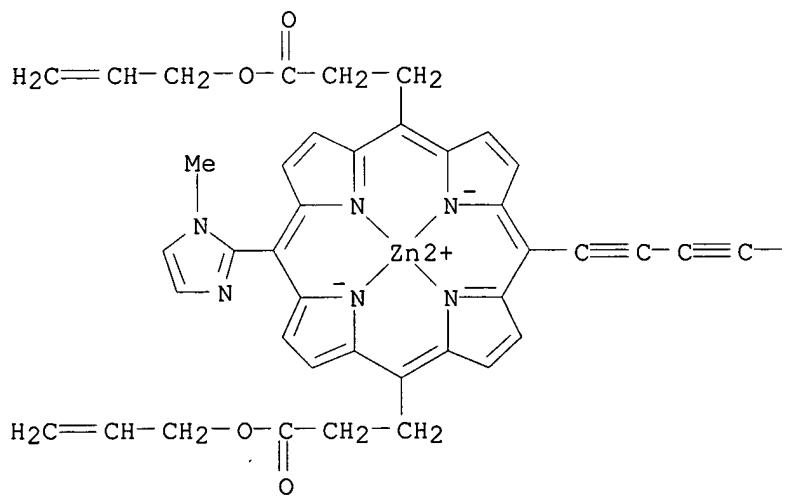
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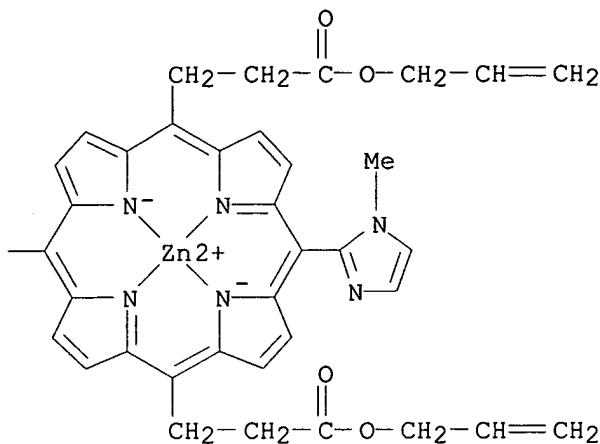


2 REFERENCES IN FILE CA (1907 TO DATE)
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L9 ANSWER 5 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
RN 679402-86-9 REGISTRY
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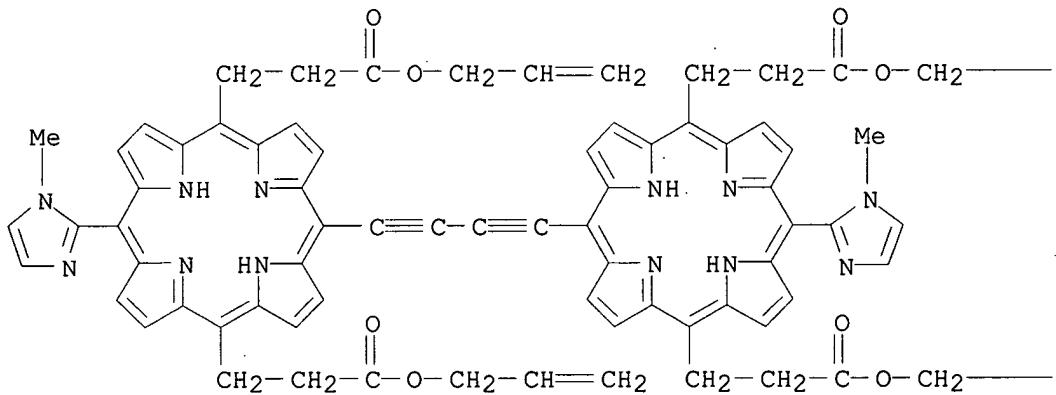
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 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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 RN 679402-83-6 REGISTRY
 CN 21H,23H-Porphine-5,15-dipropanoic acid, 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-, tetra-2-propenyl ester (9CI)
 (CA INDEX NAME)
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 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



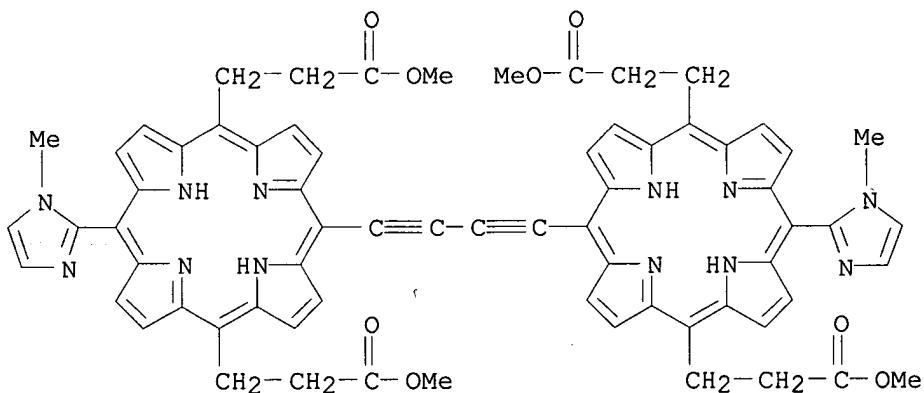
— CH=CH₂

— CH=CH₂

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L9 ANSWER 7 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 679402-81-4 REGISTRY
 CN 21H,23H-Porphine-5,15-dipropionic acid, 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-, tetramethyl ester (9CI) (CA INDEX NAME)
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 DT.CA CAplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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 RN 629668-91-3 REGISTRY
 CN Zinc, [μ-[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-dihexyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato-κN21,κN22,κN23,.κN24]](4-)]]bis(1-methyl-1H-imidazole-κN3)di- (9CI) (CA INDEX NAME)

MF C88 H98 N16 Zn2

CI CCS

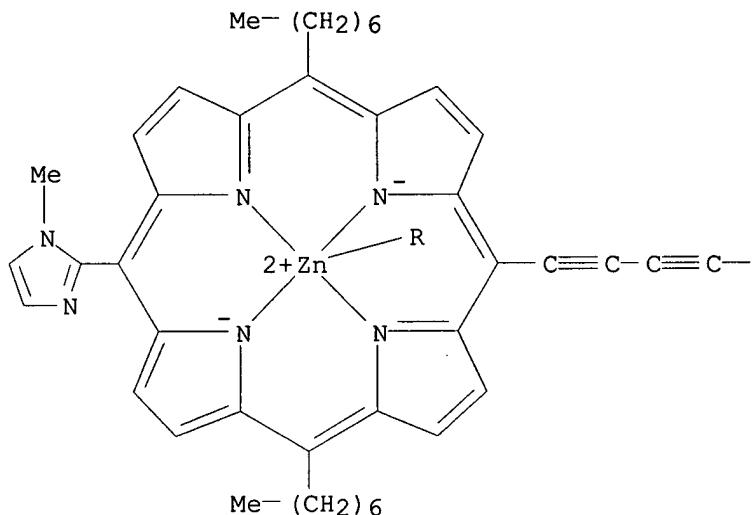
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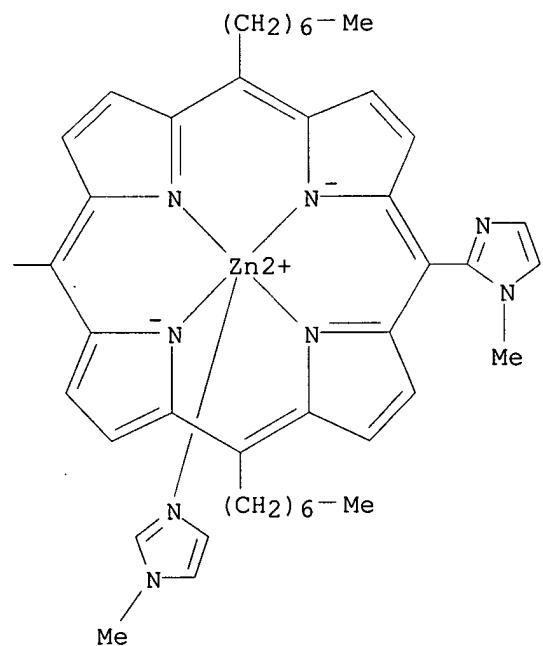
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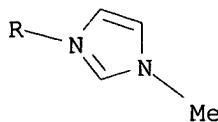
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

PAGE 1-A



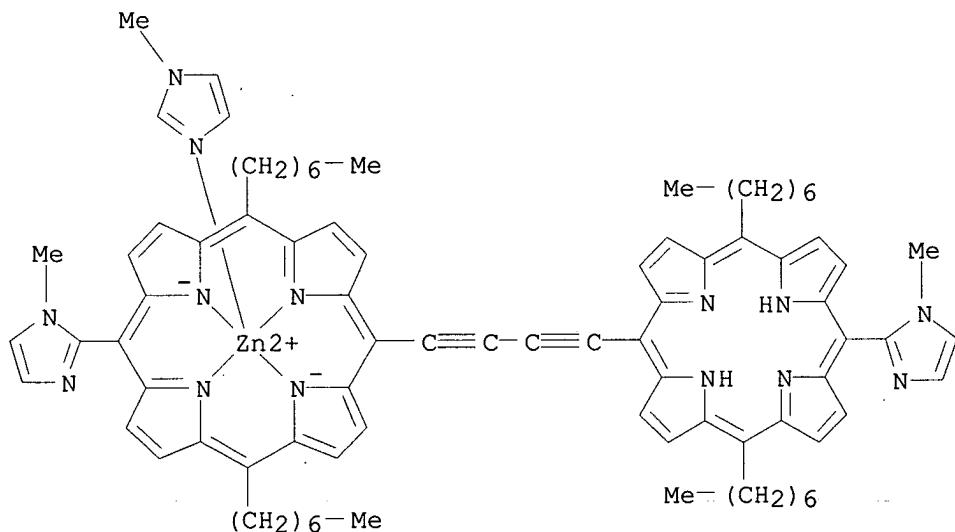
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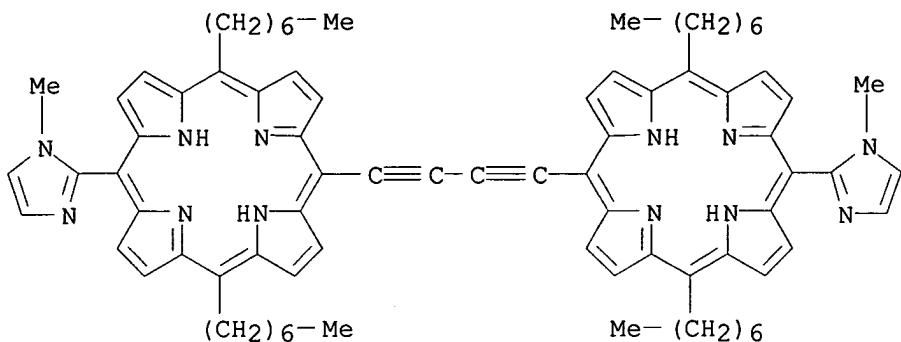
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 RN 629668-90-2 REGISTRY
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 CI CCS
 SR CA
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 DT.CA CAplus document type: Journal
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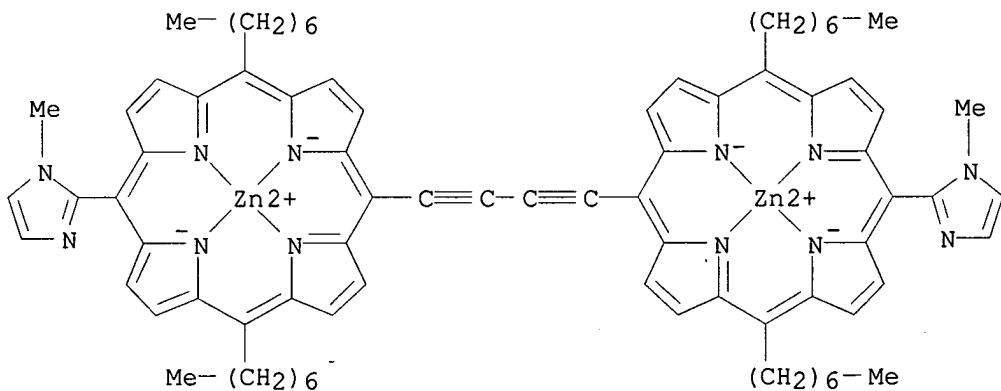
L9 ANSWER 10 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 629668-87-7 REGISTRY
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 CN 1,4-Bis[15-(1-methyl-2-imidazolyl)-10,20-diheptylporphyrin-5-yl]-1,3-butadiyne
 MF C80 H90 N12
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
 DT.CA CAplus document type: Journal; Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT

(Reactant or reagent)



3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L9 ANSWER 11 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
RN 629668-86-6 REGISTRY
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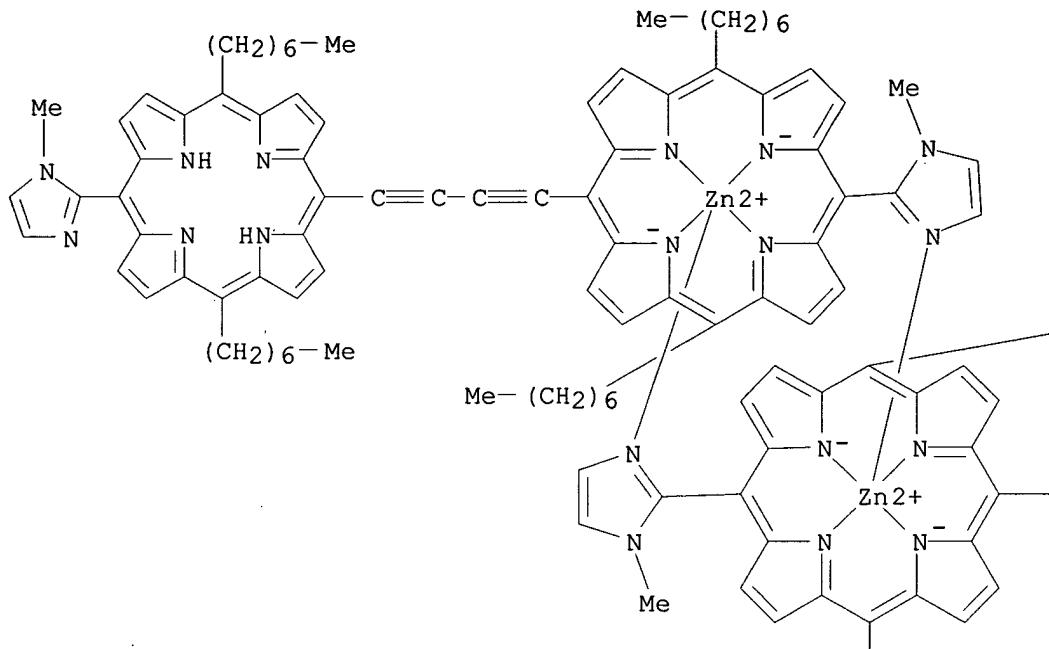


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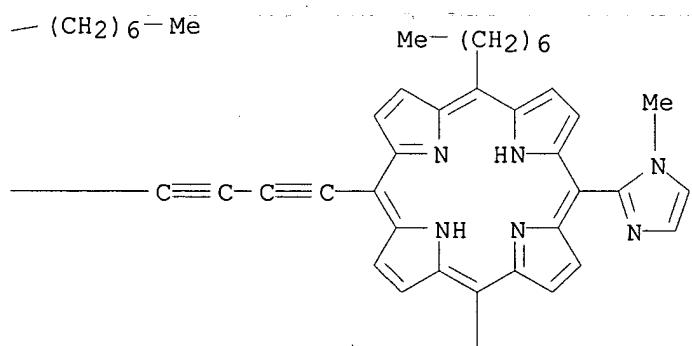
L9 ANSWER 12 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
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DT.CA CAplus document type: Journal; Patent
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RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT (Reactant or reagent)

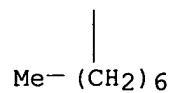
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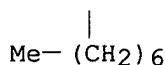
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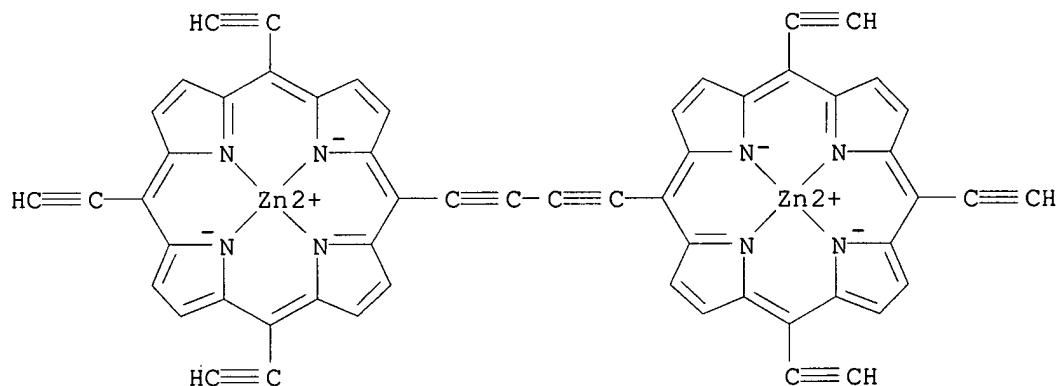


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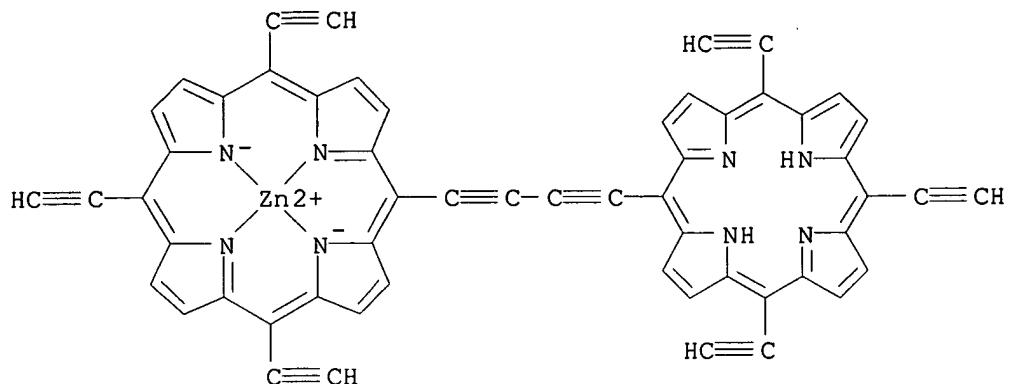
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L9 ANSWER 13 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
RN 202860-13-7 REGISTRY
CN Zinc, [μ-[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,15,20-triethynyl-21H,23H-porphinato-κN21,κN22,κN23,κN24]](4-)]di- (9CI)
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RL.NP Roles from non-patents: PRP (Properties)



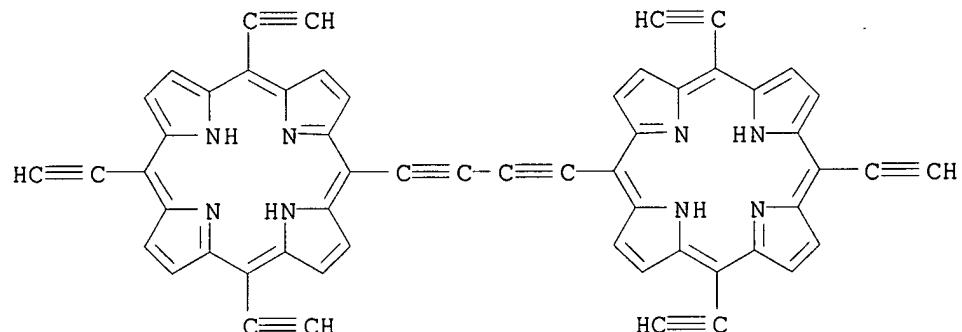
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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RN 202860-12-6 REGISTRY
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MF C56 H24 N8 Zn
CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)
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L9 ANSWER 15 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
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 RL.NP Roles from non-patents: PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		193.35	536.34

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

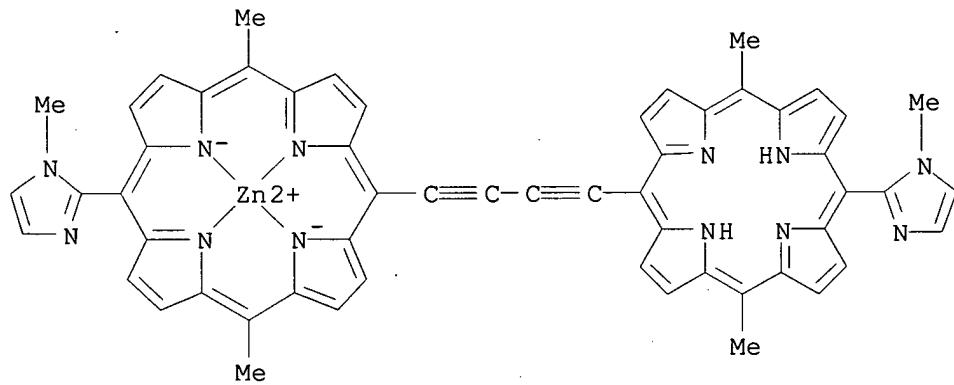
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<http://www.cas.org/ONLINE/DBSS/registryss.html>

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(836627-44-2/RN)

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L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 836627-44-2 REGISTRY
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CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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SET COMMAND COMPLETED

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=> SEL L10 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

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=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L11

L12 1 L11

=> DIS L12 1
THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:1011874 CAPLUS
DN 142:206702
TI An insight into a novel class of self-assembled porphyrins: Geometric structure, electronic structure, one- and two-photon absorption properties
AU Zhou, Xin; Ren, Ai-Min; Feng, Ji-Kang
CS State Key Laboratory of Theoretical and Computational Chemistry Institute of Theoretical Chemistry, and College of Chemistry, Jilin University, Changchun, 130023, Peop. Rep. China
SO Chemistry--A European Journal (2004), 10(22), 5623-5631
CODEN: CEUJED; ISSN: 0947-6539
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

<-----User Break----->

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.90	542.02

FILE 'REGISTRY' ENTERED AT 11:57:39 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

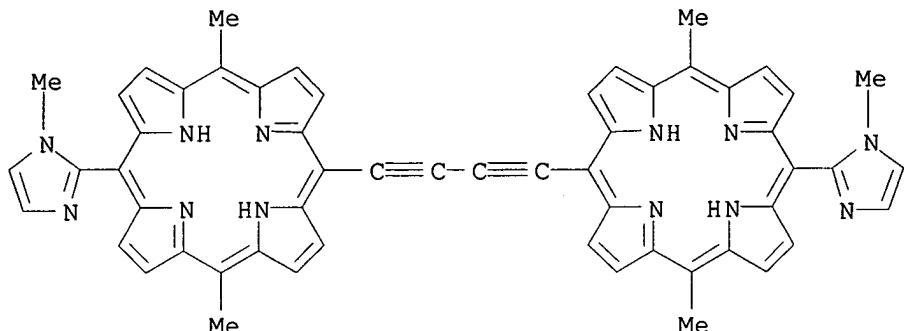
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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(836624-16-9/RN)

=> d 113
THE ESTIMATED COST FOR THIS REQUEST IS 1.84 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 836624-16-9 REGISTRY

CN 21H,23H-Porphine, 5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-dimethyl-15-(1-methyl-1H-imidazol-2-yl)- (9CI) (CA INDEX NAME)
MF C56 H42 N12
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.70	544.72

FILE 'REGISTRY' ENTERED AT 11:58:44 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L13 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L14 1 836624-16-9/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	545.23

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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L14

L15 1 L14

=> DIS L15 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:1011874 CAPLUS

DN 142:206702

TI An insight into a novel class of self-assembled porphyrins: Geometric structure, electronic structure, one- and two-photon absorption properties

AU Zhou, Xin; Ren, Ai-Min; Feng, Ji-Kang

CS State Key Laboratory of Theoretical and Computational Chemistry Institute of Theoretical Chemistry, and College of Chemistry, Jilin University, Changchun, 130023, Peop. Rep. China

SO Chemistry--A European Journal (2004), 10(22), 5623-5631

CODEN: CEUJED; ISSN: 0947-6539

PB Wiley-VCH Verlag GmbH & Co. KGaA

DT Journal

LA English

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	1.55	546.78

FILE 'STNGUIDE' ENTERED AT 11:58:57 ON 09 MAR 2005
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 4, 2005 (20050304/UP).

=> FIL CAPLUS	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.06	546.84

FILE 'CAPLUS' ENTERED AT 11:59:06 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> file registry	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.45	547.29

FILE 'REGISTRY' ENTERED AT 11:59:15 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

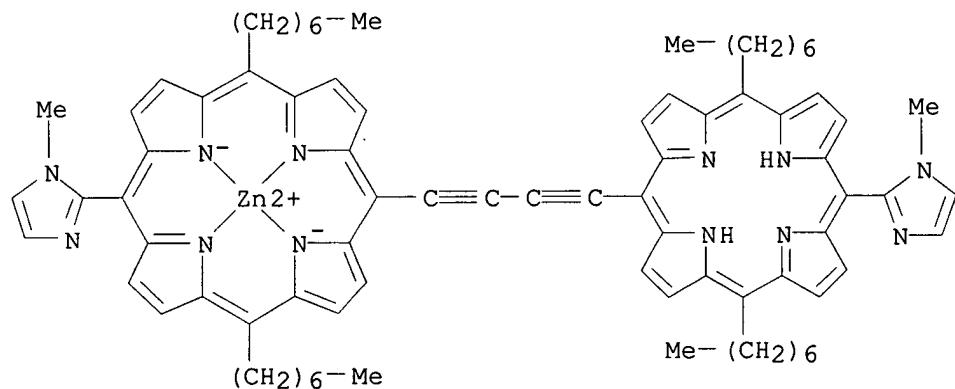
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 694453-85-5
L16 1 694453-85-5
(694453-85-5/RN)

=> s 116
L17 1 694453-85-5
(694453-85-5/RN)

=> d 116

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN **694453-85-5** REGISTRY
CN Zinc, [5-[4-[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphin-5-yl]-1,3-butadiynyl]-10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato(2-)-κN21,κN22,κN23,κN24]-,
(SP-4-2)- (9CI) (CA INDEX NAME)
MF C80 H88 N12 Zn
CI CCS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	549.56

FILE 'REGISTRY' ENTERED AT 11:59:49 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L16 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L18 1 694453-85-5/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	550.07

FILE 'USPATFULL' ENTERED AT 11:59:54 ON 09 MAR 2005

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)

FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

HIGHEST GRANTED PATENT NUMBER: US6865747

HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605

CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005

USPTO MANUAL OF CLASSIFICATIONS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<

```
>>> through the new cluster USPATALL. Type FILE USPATALL to      <<<
>>> enter this cluster.                                     <<<
>>>
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication.                  <<<
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L18

L19 1 L18

=> DIS L19 1

L19 ANSWER 1 OF 1 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and including, as structural unit, bis(imidazolylporphyrin metal complex) linked with acetylenic bond and the derivative thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file registry
'REIGISTRY' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'USPATFULL'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> s 679402-88-1
L20 0 679402-88-1

=> s 679402-88-1
L21 0 679402-88-1

=> file registry
COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
FULL ESTIMATED COST 3.78 553.85

FILE 'REGISTRY' ENTERED AT 12:01:20 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 679402-88-1
L22 1 679402-88-1
 (679402-88-1/RN)

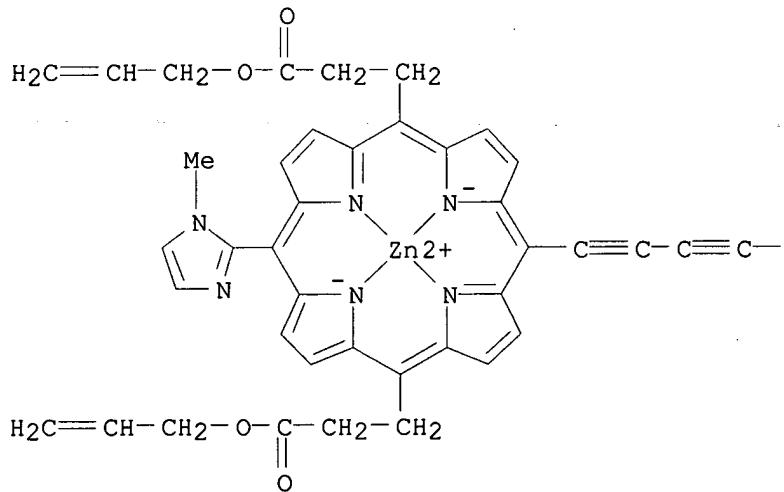
=> d 122

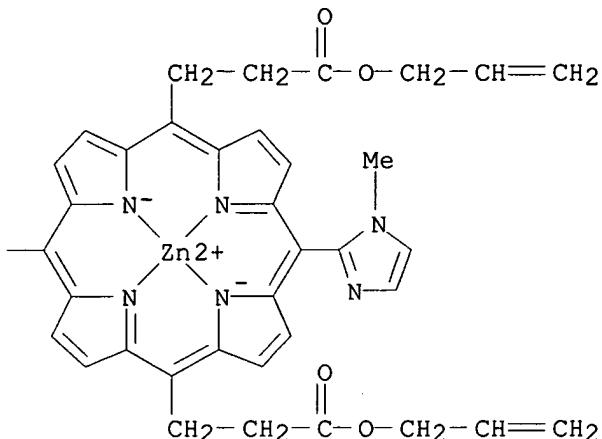
L22 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN **679402-88-1** REGISTRY
CN Zinc, [μ -[[tetra-2-propenyl 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphine-5,15-dipropanoato- κ N21, κ N22, κ N23, κ N24]](4-)]]di-, homopolymer (9CI)
(CA INDEX NAME)
MF (C76 H62 N12 O8 Zn2)x
CI PMS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); PRP (Properties)

CM 1

CRN 679402-86-9
CMF C76 H62 N12 O8 Zn2
CCI CCS

PAGE 1-A





2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	556.12

FILE 'REGISTRY' ENTERED AT 12:01:54 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
 DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L22 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L23 1 679402-88-1/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	556.63

FILE 'USPATFULL' ENTERED AT 12:01:58 ON 09 MAR 2005
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

HIGHEST GRANTED PATENT NUMBER: US6865747

HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605

CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L23

L24 2 L23

=> DIS L24 1

L24 ANSWER 1 OF 2 USPATFULL on STN

AN 2004:139611 USPATFULL

TI Porphyrin array exhibiting large two photon absorption property and including, as structural unit, bis(imidazolylporphyrin metal complex) linked with acetylenic bond and the derivative thereof, and method of producing the same

IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN

Ogawa, Kazuya, Ikoma-shi, JAPAN

PI US 2004106787 A1 20040603

AI US 2003-715493 A1 20031119 (10)

PRAI JP 2002-335246 20021119

DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file registry			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
FULL ESTIMATED COST	ENTRY	SESSION	
	2.38	559.01	

FILE 'REGISTRY' ENTERED AT 12:02:45 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s v694453-85-5
L25 0 V694453-85-5

=> file registry			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
FULL ESTIMATED COST	ENTRY	SESSION	
	5.03	564.04	

FILE 'REGISTRY' ENTERED AT 12:03:10 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

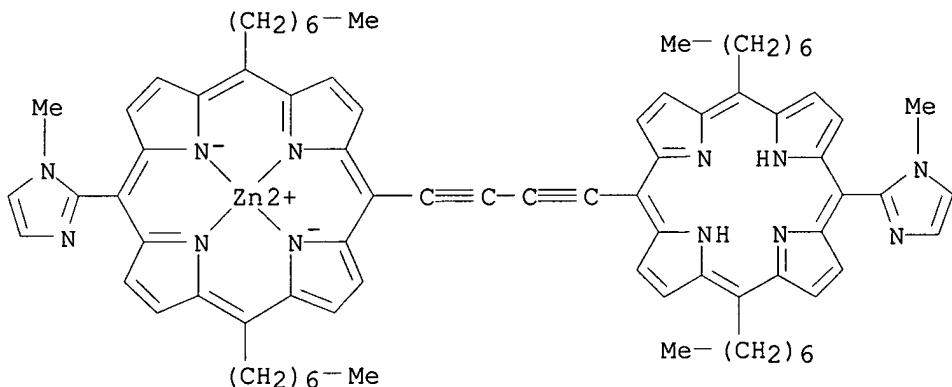
Experimental and calculated property data are now available. For more

information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 694453-85-5
L26 1 694453-85-5
(694453-85-5/RN)

=> d 126

L26 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN **694453-85-5** REGISTRY
CN Zinc, [5-[4-[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphin-5-yl]-1,3-butadiynyl]-10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato(2-)-κN21,κN22,κN23,κN24]-, (SP-4-2)- (9CI) (CA INDEX NAME)
MF C80 H88 N12 Zn
CI CCS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	566.31

FILE 'REGISTRY' ENTERED AT 12:03:44 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L26 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L27 1 694453-85-5/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	566.82

FILE 'USPATFULL' ENTERED AT 12:03:48 ON 09 MAR 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

HIGHEST GRANTED PATENT NUMBER: US6865747

HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605

CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<

>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L27

L28 1 L27

=> DIS L28 1

L28 ANSWER 1 OF 1 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and including, as structural unit, bis(imidazolylporphyrin metal complex) linked with acetylenic bond and the derivative thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.38	569.20

FILE 'REGISTRY' ENTERED AT 12:04:02 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L26 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L29 1 694453-85-5/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	569.71

FILE 'CAPLUS' ENTERED AT 12:04:06 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L29

L30 1 L29

=> DIS L30 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L30 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:451666 CAPLUS

DN 141:16270

TI Preparation of porphyrin arrays exhibiting large two photon absorption and including, as a structural unit, bis(imidazolylporphyrin metal complex) linked with an acetylenic bond and their derivatives

IN Kobuke, Yoshiaki; Ogawa, Kazuya

PA Japan

SO U.S. Pat. Appl. Publ., 35 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI US 2004106787	A1 20040603	US 2003-715493	20031119
JP 2004168690	A2 20040617	JP 2002-335246	20021119
PRAI JP 2002-335246	A 20021119		
OS MARPAT 141:16270			

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.00	571.71

FILE 'REGISTRY' ENTERED AT 12:05:13 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
 DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

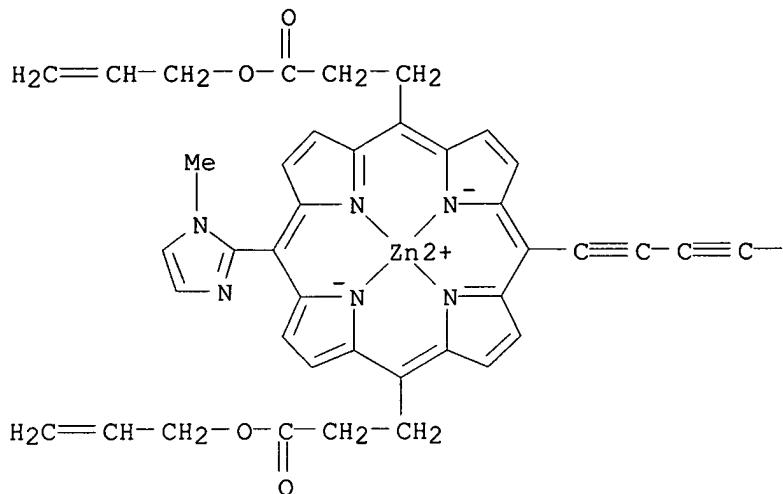
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> s 679402-86-9
L31      1 679402-86-9
          (679402-86-9/RN)
```

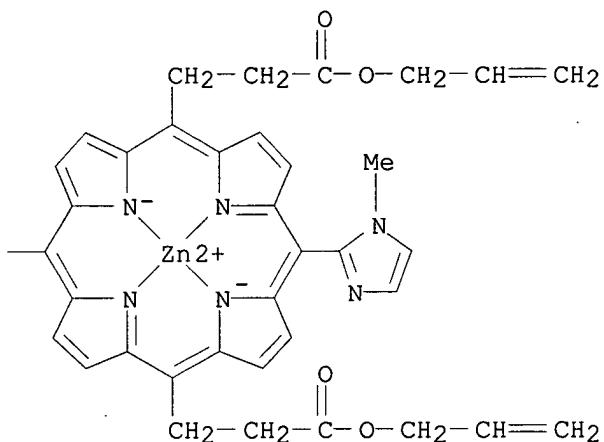
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=> d 131
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L31  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN  679402-86-9  REGISTRY
CN  Zinc, [ $\mu$ -[[tetra-2-propenyl 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphine-5,15-dipropanoato- $\kappa$ N21, $\kappa$ N22, $\kappa$ N23, $\kappa$ N24]](4-)]]di- (9CI)  (CA INDEX
NAME)
MF  C76 H62 N12 O8 Zn2
CI  CCS, COM
SR  CA
LC  STN Files: CA, CAPLUS, USPATFULL
DT.CA  CAplus document type: Patent
RL.P  Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
```

PAGE 1-A



PAGE 1-B



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	573.98

FILE 'REGISTRY' ENTERED AT 12:05:55 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L31 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L32 1 679402-86-9/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	574.49

FILE 'USPATFULL' ENTERED AT 12:06:02 ON 09 MAR 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

HIGHEST GRANTED PATENT NUMBER: US6865747

HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605

CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<

>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L32

L33 2 L32

=> DIS L33 1

L33 ANSWER 1 OF 2 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and including, as structural unit, bis(imidazolylporphyrin metal complex) linked with acetylenic bond and the derivative thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> DIS L33 2

L33 ANSWER 2 OF 2 USPATFULL on STN
AN 2004:95533 USPATFULL
TI Covalently fixed porphyrin polymer having porphyrin metal complex substituted with coordinating hetero aromatic ring as constituting unit thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Satake, Akiharu, Ikoma-shi, JAPAN
PI US 2004072988 A1 20040415
AI US 2003-419767 A1 20030422 (10)
PRAI JP 2002-281616 20020926
DT Utility
FS APPLICATION
LN.CNT 2303
INCL INCLM: 528/395.000
NCL NCLM: 528/395.000
IC [7]
ICM: C08G079-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file registry
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 8.94 583.43

FILE 'REGISTRY' ENTERED AT 12:09:03 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

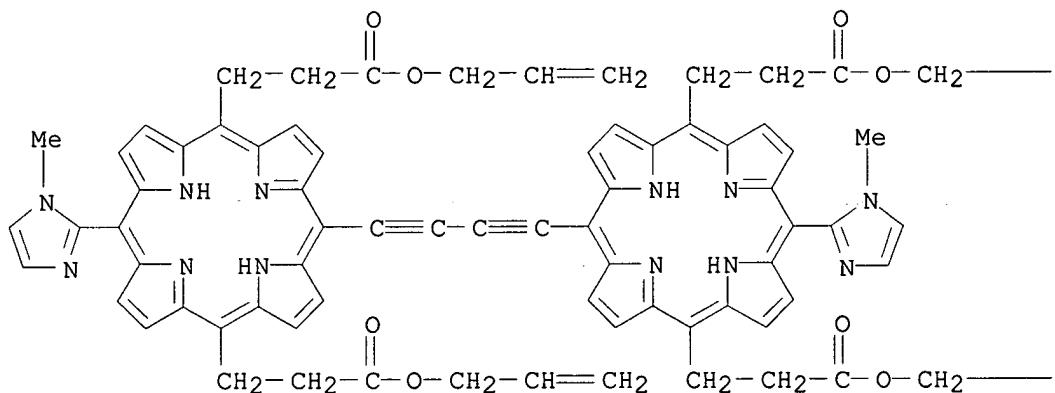
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 679402-83-6
L34 1 679402-83-6
(679402-83-6/RN)

=> d 134

L34 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 679402-83-6 REGISTRY
CN 21H,23H-Porphine-5,15-dipropanoic acid, 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-, tetra-2-propenyl ester (9CI)
(CA INDEX NAME)
MF C76 H66 N12 O8
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

PAGE 1-A



-- CH=CH₂

-- CH=CH₂

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	585.70

FILE 'REGISTRY' ENTERED AT 12:09:21 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L34 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L35 1 679402-83-6/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	586.21

FILE 'USPATFULL' ENTERED AT 12:09:26 ON 09 MAR 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

HIGHEST GRANTED PATENT NUMBER: US6865747

HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605

CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

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>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
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>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L35

L36 2 L35

=> DIS L36 1

L36 ANSWER 1 OF 2 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and including, as structural unit, bis(imidazolylporphyrin metal complex) linked with acetylenic bond and the derivative thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603

AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> DIS L36 2

L36 ANSWER 2 OF 2 USPATFULL on STN
AN 2004:95533 USPATFULL
TI Covalently fixed porphyrin polymer having porphyrin metal complex substituted with coordinating hetero aromatic ring as constituting unit thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Satake, Akiharu, Ikoma-shi, JAPAN
PI US 2004072988 A1 20040415
AI US 2003-419767 A1 20030422 (10)
PRAI JP 2002-281616 20020926
DT Utility
FS APPLICATION
LN.CNT 2303
INCL INCLM: 528/395.000
NCL NCLM: 528/395.000
IC [7]
ICM: C08G079-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.74	590.95

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> file registry
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST

0.43

591.38

FILE 'REGISTRY' ENTERED AT 12:10:40 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

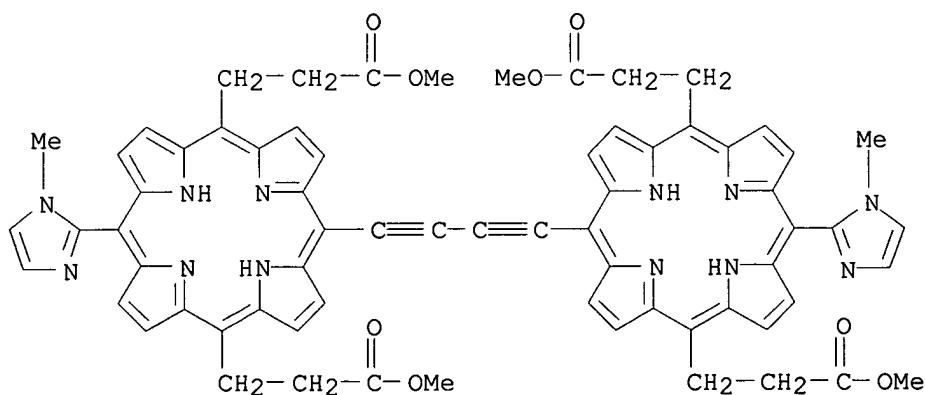
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 679402-81-4
L37 1 679402-81-4
(679402-81-4/RN)

=> s 137
L38 1 679402-81-4
(679402-81-4/RN)

=> d 138

L38 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN **679402-81-4** REGISTRY
CN 21H,23H-Porphine-5,15-dipropionic acid, 10,10'-(1,3-butadiyne-1,4-
diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-, tetramethyl ester (9CI) (CA
INDEX NAME)
MF C68 H58 N12 O8
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	593.65

FILE 'REGISTRY' ENTERED AT 12:11:05 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L38 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L39 1 679402-81-4/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	594.16

FILE 'USPATFULL' ENTERED AT 12:11:11 ON 09 MAR 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)
HIGHEST GRANTED PATENT NUMBER: US6865747

HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605
CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L39

L40 2 L39

=> DIS L40 1

L40 ANSWER 1 OF 2 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and including, as structural unit, bis(imidazolylporphyrin metal complex) linked with acetylenic bond and the derivative thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> DIS L40 2

L40 ANSWER 2 OF 2 USPATFULL on STN
AN 2004:95533 USPATFULL
TI Covalently fixed porphyrin polymer having porphyrin metal complex substituted with coordinating hetero aromatic ring as constituting unit thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Satake, Akiharu, Ikoma-shi, JAPAN

PI US 2004072988 A1 20040415
AI US 2003-419767 A1 20030422 (10)
PRAI JP 2002-281616 20020926
DT Utility
FS APPLICATION
LN.CNT 2303
INCL INCLM: 528/395.000
NCL NCLM: 528/395.000
IC [7]
ICM: C08G079-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file registry
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 3.34 597.50

FILE 'REGISTRY' ENTERED AT 12:11:41 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

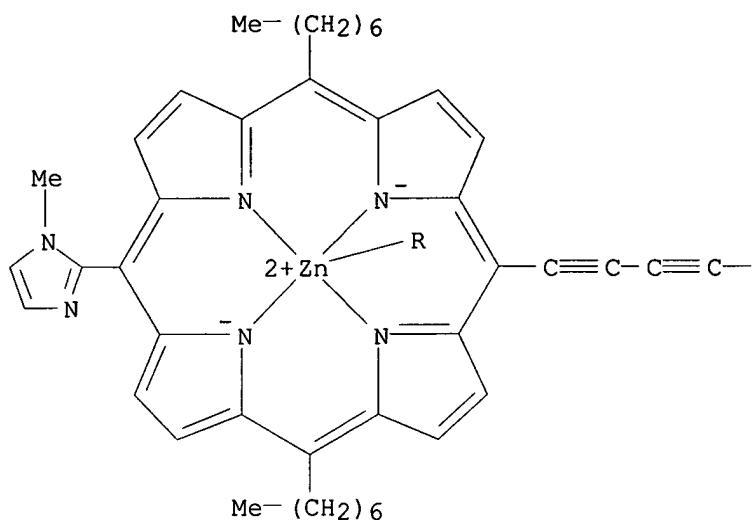
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 629668-91-3
L41 , 1 629668-91-3
(629668-91-3/RN)

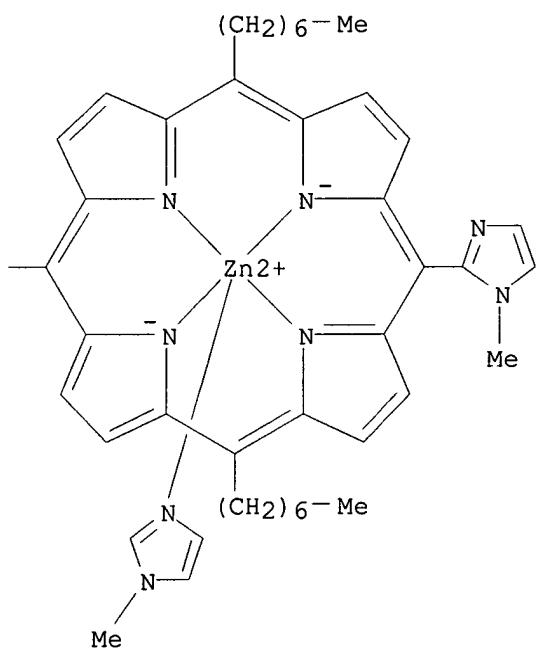
=> d 141

L41 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN **629668-91-3** REGISTRY
CN Zinc, μ -[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato- κ N21, κ N22, κ N23,.kap pa.N24]](4-)]]bis(1-methyl-1H-imidazole- κ N3)di- (9CI) (CA INDEX NAME)
MF C88 H98 N16 Zn2
CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

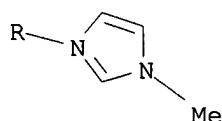
PAGE 1-A



PAGE 1-B



PAGE 2-A



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	599.77

FILE 'REGISTRY' ENTERED AT 12:11:59 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L41 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L42 1 629668-91-3/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	600.28

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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L42

L43 2 L42

=> DIS L43 1-

YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 2.20 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L43 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:164564 CAPLUS
DN 141:306273
TI Strong two-photon absorption of self-assembled butadiyne-linked bisporphyrin. [Erratum to document cited in CA140:022308]
AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta, Koji
CS Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Nara, 630-0101, Japan
SO Journal of the American Chemical Society (2004), 126(12), 4050
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English

L43 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:797108 CAPLUS
DN 140:22308
TI Strong Two-Photon Absorption of Self-Assembled Butadiyne-Linked Bisporphyrin
AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta, Koji
CS Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Nara, 630-0101, Japan
SO Journal of the American Chemical Society (2003), 125(44), 13356-13357
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 140:22308
RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE
COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
FULL ESTIMATED COST 2.65 602.93

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 4, 2005 (20050304/UP).

FILE 'CAPLUS' ENTERED AT 12:13:45 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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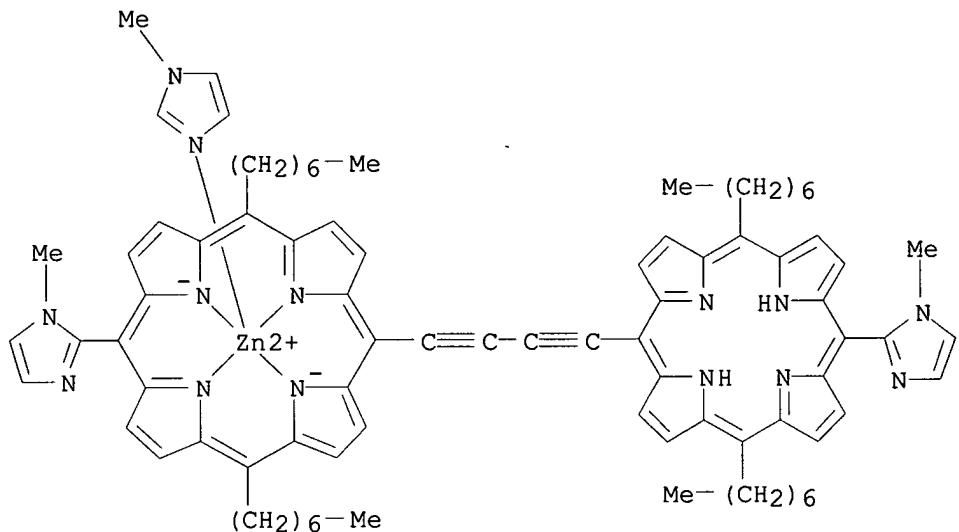
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 629668-90-2
L44 1 629668-90-2
(629668-90-2/RN)

=> d 144

L44 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 629668-90-2 REGISTRY
 CN Zinc, [5-[4-[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphin-5-yl]-1,3-butadiynyl]-10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato(2-)-κN21,κN22,κN23,κN24](1-methyl-1H-imidazole-κN3)-, (SP-5-13)- (9CI) (CA INDEX NAME)
 MF C84 H94 N14 Zn
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	605.77

FILE 'REGISTRY' ENTERED AT 12:14:13 ON 09 MAR 2005
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 DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L44 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L45 1 629668-90-2/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	606.28

FILE 'CAPLUS' ENTERED AT 12:14:18 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L45

L46 2 L45

=> DIS L46 1-

YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 2.20 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L46 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:164564 CAPLUS
DN 141:306273

TI Strong two-photon absorption of self-assembled butadiyne-linked bisporphyrin. [Erratum to document cited in CA140:022308]
AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta, Koji
CS Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Nara, 630-0101, Japan
SO Journal of the American Chemical Society (2004), 126(12), 4050
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English

L46 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:797108 CAPLUS
DN 140:22308
TI Strong Two-Photon Absorption of Self-Assembled Butadiyne-Linked Bisporphyrin
AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta, Koji
CS Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Nara, 630-0101, Japan
SO Journal of the American Chemical Society (2003), 125(44), 13356-13357
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 140:22308
RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 2.65 608.93

FILE 'STNGUIDE' ENTERED AT 12:14:36 ON 09 MAR 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 4, 2005 (20050304/UP).

=> FIL CAPLUS
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.06 608.99

FILE 'CAPLUS' ENTERED AT 12:15:01 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

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=> file registry	COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST		0.45	609.44

FILE 'REGISTRY' ENTERED AT 12:15:14 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

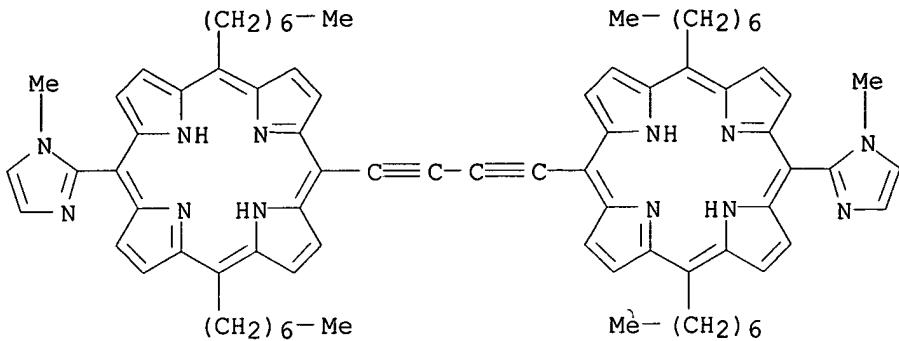
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 629668-87-7
L47 1 629668-87-7
(629668-87-7/RN)

=> d 147

L47 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN **629668-87-7** REGISTRY
CN 21H,23H-Porphine, 5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,4-Bis[15-(1-methyl-2-imidazolyl)-10,20-diheptylporphyrin-5-yl]-1,3-butadiyne
MF C80 H90 N12
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT (Reactant or reagent)



3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	611.71

FILE 'REGISTRY' ENTERED AT 12:15:35 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
 DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L47 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L48 1 629668-87-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	612.22

FILE 'USPATFULL' ENTERED AT 12:15:39 ON 09 MAR 2005
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)
HIGHEST GRANTED PATENT NUMBER: US6865747
HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605
CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L48

L49 1 L48

=> DIS L49 1

L49 ANSWER 1 OF 1 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and including, as structural unit, bis(imidazolylporphyrin metal complex) linked with acetylenic bond and the derivative thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000

IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.38	614.60

FILE 'REGISTRY' ENTERED AT 12:15:57 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L47 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L50 1 629668-87-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CASREACT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	615.11

FILE 'CASREACT' ENTERED AT 12:16:02 ON 09 MAR 2005
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FILE CONTENT:1840 - 6 Mar 2005 VOL 142 ISS 10

*
* CASREACT now has more than 8 million reactions *
*

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L50

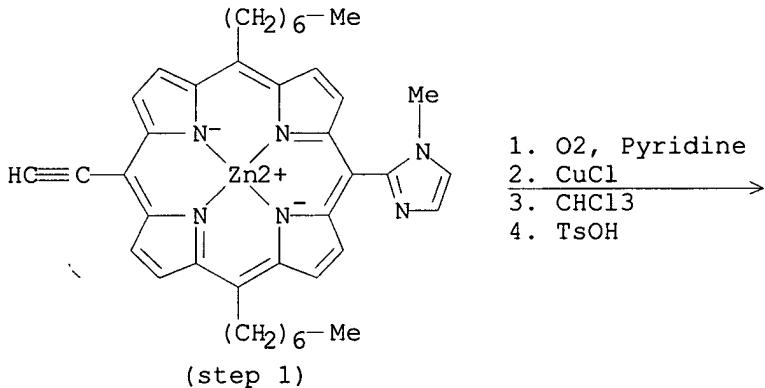
L51 1 L50

=> DIS L51 1

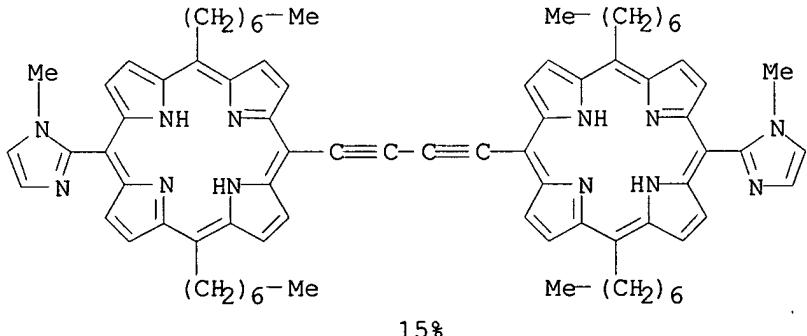
THE ESTIMATED COST FOR THIS REQUEST IS 2.67 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L51 ANSWER 1 OF 1 CASREACT COPYRIGHT 2005 ACS on STN

RX(3) OF 9



RX(3) OF 9



REF: Journal of the American Chemical Society, 125(44), 13356-13357;

2003

NOTE: key step

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	30.35	645.46

FILE 'REGISTRY' ENTERED AT 12:16:41 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L47 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L52 1 629668-87-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	645.97

FILE 'CAPLUS' ENTERED AT 12:16:45 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L52

L53 3 L52

=> DIS L53 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L53 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:451666 CAPLUS
DN 141:16270
TI Preparation of porphyrin arrays exhibiting large two photon absorption and including, as a structural unit, bis(imidazolylporphyrin metal complex) linked with an acetylenic bond and their derivatives
IN Kobuke, Yoshiaki; Ogawa, Kazuya
PA Japan
SO U.S. Pat. Appl. Publ., 35 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004106787	A1	20040603	US 2003-715493	20031119
JP 2004168690	A2	20040617	JP 2002-335246	20021119
PRAI JP 2002-335246	A	20021119		
OS MARPAT 141:16270				

=> DIS L53 2

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L53 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:164564 CAPLUS
DN 141:306273
TI Strong two-photon absorption of self-assembled butadiyne-linked bisporphyrin. [Erratum to document cited in CA140:022308]
AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta, Koji
CS Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Nara, 630-0101, Japan
SO Journal of the American Chemical Society (2004), 126(12), 4050
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.65	648.62

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Mar 4, 2005 (20050304/UP).

=> FIL CAPLUS		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.12	648.74

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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
 FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> DIS L53 3
 THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L53 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:797108 CAPLUS
 DN 140:22308
 TI Strong Two-Photon Absorption of Self-Assembled Butadiyne-Linked Bisporphyrin
 AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta, Koji
 CS Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Nara, 630-0101, Japan
 SO Journal of the American Chemical Society (2003), 125(44), 13356-13357
 CODEN: JACSAT; ISSN: 0002-7863
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 140:22308
 RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file registry		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL

FULL ESTIMATED COST	ENTRY 1.55	SESSION 650.29
---------------------	---------------	-------------------

FILE 'REGISTRY' ENTERED AT 12:18:59 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> s 629668-86-6
L54      1 629668-86-6
          (629668-86-6/RN)
```

=> file registry	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.86	651.15

FILE 'REGISTRY' ENTERED AT 12:20:28 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

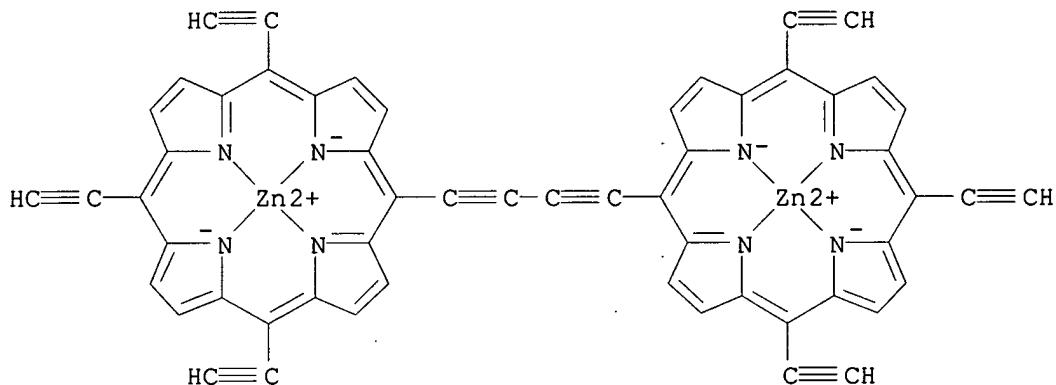
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> s 202860-13-7
L55      1 202860-13-7
          (202860-13-7/RN)
```

=> d 155

L55 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 202860-13-7 REGISTRY
CN Zinc, [μ-[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,15,20-triethynyl-21H,23H-porphinato-κN21,κN22,κN23,κN24]](4-)]di- (9CI)
(CA INDEX NAME)
MF C56 H22 N8 Zn2
CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	653.42

FILE 'REGISTRY' ENTERED AT 12:21:04 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L55 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L56 1 202860-13-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	653.93

FILE 'CAPLUS' ENTERED AT 12:21:08 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L56

L57 1 L56

=> DIS L57 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L57 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:33809 CAPLUS
DN 128:167041
TI DFT study of alkynylporphyrin dimers and brominated tetraphenylporphyrins
AU Wang, Zhiqiang; Day, Paul; Pachter, Ruth; Mclean, Daniel G.
CS Materials Directorate, Wright Laboratory, WL/MLPJ Wright-Patterson Air Force Base, OH, 45433-7702, USA
SO Materials Research Society Symposium Proceedings (1997), 479(Materials for Optical Limiting II), 331-336
CODEN: MRSPDH; ISSN: 0272-9172
PB Materials Research Society
DT Journal
LA English

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.55	655.48

FILE 'STNGUIDE' ENTERED AT 12:21:19 ON 09 MAR 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 4, 2005 (20050304/UP).

=> FIL CAPLUS COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	655.54

FILE 'CAPLUS' ENTERED AT 12:22:02 ON 09 MAR 2005
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FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

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=> file registry COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	655.99

FILE 'REGISTRY' ENTERED AT 12:22:15 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

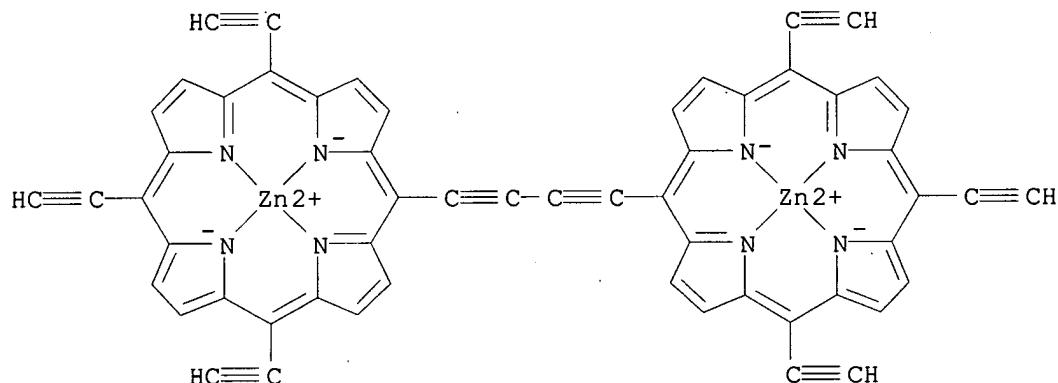
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 202860-13-7
L58 1 202860-13-7
(202860-13-7/RN)

=> d 158

L58 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 202860-13-7 REGISTRY
CN Zinc, $[\mu\text{-}[[5,5'\text{-(1,3-butadiyne-1,4-diyl)bis[10,15,20-triethynyl-21H,23H-porphinato-\kappa N_{21},\kappa N_{22},\kappa N_{23},\kappa N_{24}]](4-)}]]\text{di-}$ (9CI)
(CA INDEX NAME)
MF C56 H22 N8 Zn2
CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	658.26

FILE 'REGISTRY' ENTERED AT 12:22:35 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L58 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L59 1 202860-13-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	658.77

FILE 'CAPLUS' ENTERED AT 12:22:39 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L59

L60 1 L59

=> DIS L60 1
THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L60 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:33809 CAPLUS
DN 128:167041
TI DFT study of alkynylporphyrin dimers and brominated tetraphenylporphyrins
AU Wang, Zhiqiang; Day, Paul; Pachter, Ruth; Mclean, Daniel G.
CS Materials Directorate, Wright Laboratory, WL/MLPJ Wright-Patterson Air
Force Base, OH, 45433-7702, USA
SO Materials Research Society Symposium Proceedings (1997), 479(Materials for
Optical Limiting II), 331-336
CODEN: MRSPDH; ISSN: 0272-9172
PB Materials Research Society
DT Journal
LA English
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file registry	COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST		2.90	661.67

FILE 'REGISTRY' ENTERED AT 12:24:58 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

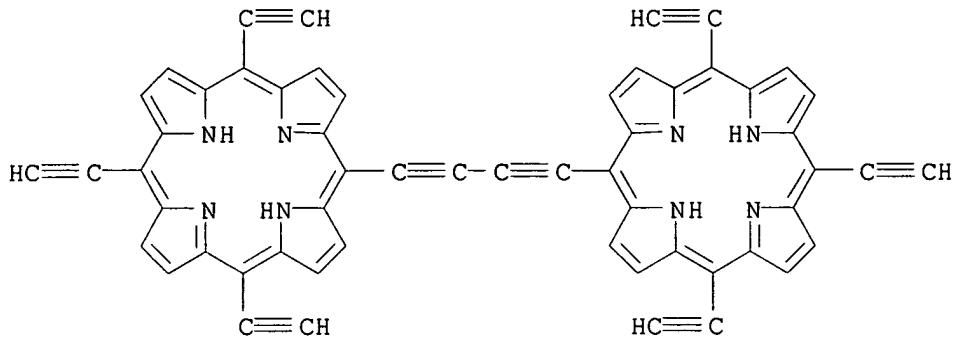
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 202860-10-4
L61 1 202860-10-4
(202860-10-4/RN)

=> d 161

L61 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 202860-10-4 REGISTRY
CN 21H,23H-Porphine, 5,5'-(1,3-butadiyne-1,4-diyl)bis[10,15,20-triethynyl-
(9CI) (CA INDEX NAME)
MF C56 H26 N8
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	663.94

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L61 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	664.45

FILE 'CAPLUS' ENTERED AT 12:25:20 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L62

L63 2 L62

=> DIS L63 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L63 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:49485 CAPLUS

DN 128:204480

TI Density functional theory studies of meso-alkynyl porphyrins

AU Wang, Zhiqiang; Day, Paul N.; Pachter, Ruth

CS Materials and Manufacturing Directorate, Air Force Research Laboratory,
AFRL/MLPJ, Wright-Patterson Air Force Base, OH, 45433-7702, USA

SO Journal of Chemical Physics (1998), 108(6), 2504-2510
CODEN: JCPSA6; ISSN: 0021-9606

PB American Institute of Physics

DT Journal

LA English

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L63 2

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L63 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:33809 CAPLUS

DN 128:167041

TI DFT study of alkynylporphyrin dimers and brominated tetraphenylporphyrins
AU Wang, Zhiqiang; Day, Paul; Pachter, Ruth; Mclean, Daniel G.
CS Materials Directorate, Wright Laboratory, WL/MLPJ Wright-Patterson Air
Force Base, OH, 45433-7702, USA
SO Materials Research Society Symposium Proceedings (1997), 479(Materials for
Optical Limiting II), 331-336
CODEN: MRSPDH; ISSN: 0272-9172
PB Materials Research Society
DT Journal
LA English
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> end
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
3.10	667.55

STN INTERNATIONAL LOGOFF AT 12:26:33 ON 09 MAR 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: sssptamlf1623

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
 STN Express with Discover!
NEWS 4 OCT 28 KOREAPAT now available on STN
NEWS 5 NOV 30 PHAR reloaded with additional data
NEWS 6 DEC 01 LISI now available on STN
NEWS 7 DEC 09 12 databases to be removed from STN on December 31, 2004
NEWS 8 DEC 15 MEDLINE update schedule for December 2004
NEWS 9 DEC 17 ELCOM reloaded; updating to resume; current-awareness
 alerts (SDIs) affected
NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness
 alerts (SDIs) affected
NEWS 11 DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness
 alerts (SDIs) affected
NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness
 alerts (SDIs) affected
NEWS 13 DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN
NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED
NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and
 February 2005
NEWS 17 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks
 (ROSPATENT) added to list of core patent offices covered
NEWS 18 FEB 10 STN Patent Forums to be held in March 2005

NEWS 19 FEB 16 STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005
NEWS 20 FEB 28 PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS 21 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 22 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 23 MAR 02 GBFULL: New full-text patent database on STN
NEWS 24 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 25 MAR 03 MEDLINE file segment of TOXCENTER reloaded

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

| | |
|------------|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | General Internet Information |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 14:06:29 ON 09 MAR 2005

=> file registry
COST IN U.S. DOLLARS . SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 14:06:40 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

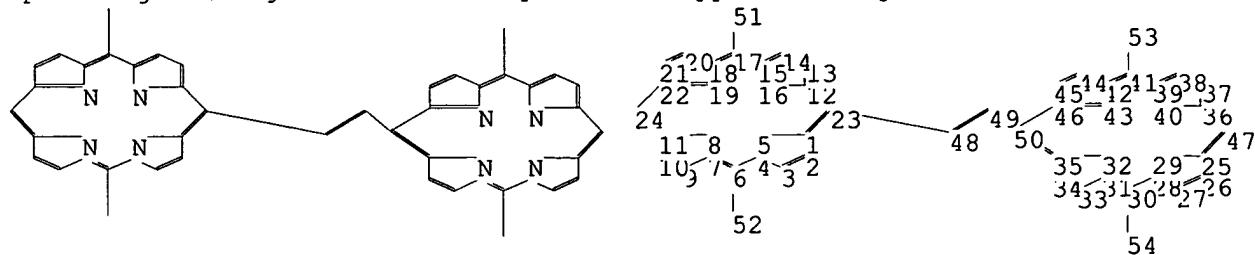
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

=>

Uploading C:\Program Files\Stnexp\Queries\Application queries\10715493d.str



chain nodes :

48 49 51 52 53 54

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 50

chain bonds :

6-52 17-51 23-48 30-54 41-53 48-49 49-50

ring bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13
12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22
22-24 25-26 25-29 25-47 26-27 27-28 28-29 28-30 30-31 31-32 31-33 32-35
33-34 34-35 35-50 36-37 36-40 36-47 37-38 38-39 39-40 39-41 41-42 42-43
42-44 43-46 44-45 45-46 46-50

exact/norm bonds :

7-8 8-11 12-16 15-16 31-32 32-35 36-40 39-40

exact bonds :

6-52 17-51 23-48 30-54 41-53 48-49 49-50

normalized bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-9 9-10 10-11 11-24 12-13 12-23
13-14 14-15 15-17 17-18 18-19 18-20 19-22 20-21 21-22 22-24 25-26 25-29
25-47 26-27 27-28 28-29 28-30 30-31 31-33 33-34 34-35 35-50 36-37 36-47
37-38 38-39 39-41 41-42 42-43 42-44 43-46 44-45 45-46 46-50

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom
38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom
47:Atom 48:CLASS 49:CLASS 50:Atom 51:CLASS 52:CLASS 53:CLASS 54:CLASS

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> s 12 sss full
FULL SEARCH INITIATED 14:07:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED ~ 1310 TO ITERATE

100.0% PROCESSED 1310 ITERATIONS
SEARCH TIME: 00.00.01

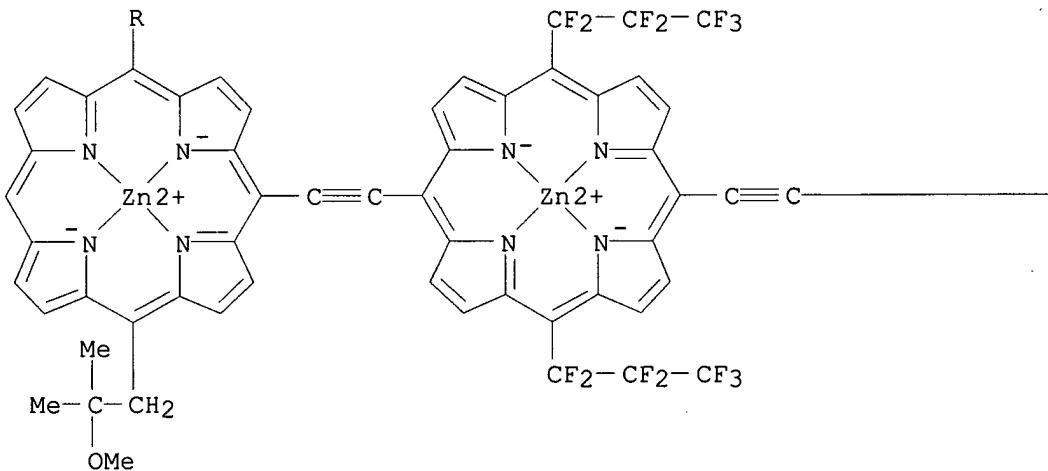
2 ANSWERS

L3 2 SEA SSS FUL L1

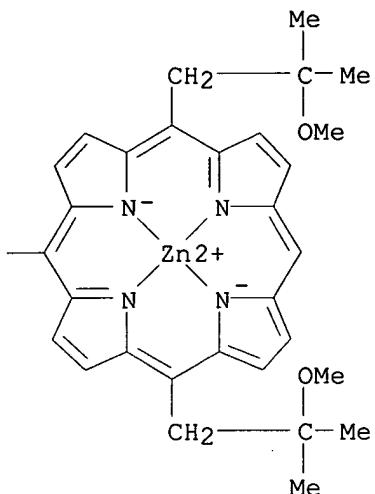
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L3 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 320730-70-9 REGISTRY
CN Zinc, [μ 3-[5,15-bis[[10,20-bis(2-methoxy-2-methylpropyl)-21H,23H-porphin-5-yl- κ N21, κ N22, κ N23, κ N24]ethynyl]-10,20-bis(hexafluoropropyl)-21H,23H-porphinato(6-)- κ N21, κ N22, κ N23, κ N24]]tri- (9CI) (CA INDEX NAME)
MF C90 H70 F14 N12 O4 Zn3
CI CCS
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

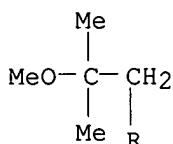
PAGE 1-A



PAGE 1-B



PAGE 2-A



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 163.17 | 163.38 |

FILE 'REGISTRY' ENTERED AT 14:07:20 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L3 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L4 1 320730-70-9/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.51 | 163.89 |

FILE 'USPATFULL' ENTERED AT 14:07:25 ON 09 MAR 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

HIGHEST GRANTED PATENT NUMBER: US6865747

HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605

CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<

>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L4

L5 1 L4

=> DIS L5 1

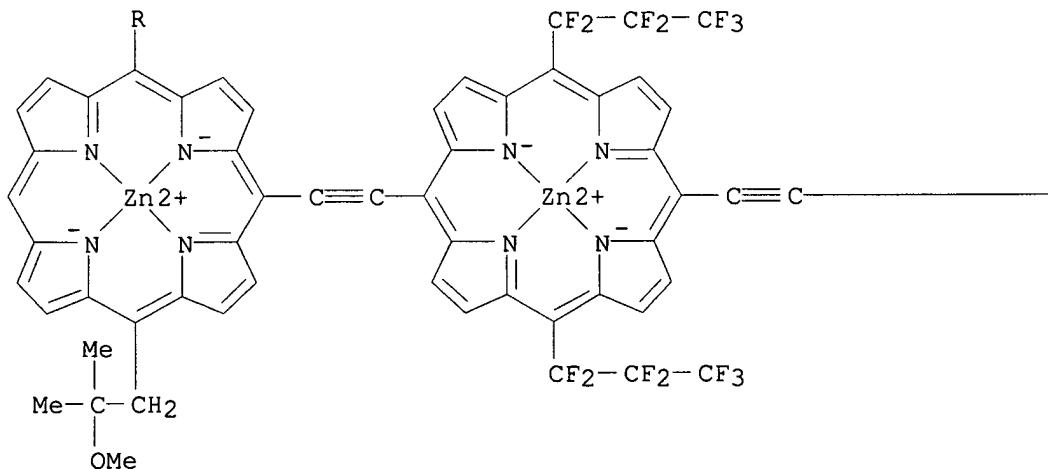
L5 ANSWER 1 OF 1 USPATFULL on STN
AN 2003:238763 USPATFULL
TI Multielectron redox catalysts
IN Therien, Michael J., Philadelphia, PA, UNITED STATES
Fletcher, James T., San Diego, CA, UNITED STATES
PI US 2003166921 A1 20030904
AI US 2002-301017 A1 20021121 (10)
PRAI US 2001-331894P 20011121 (60)
DT Utility
FS APPLICATION
LN.CNT 1788
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

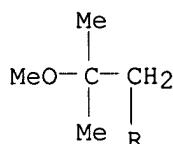
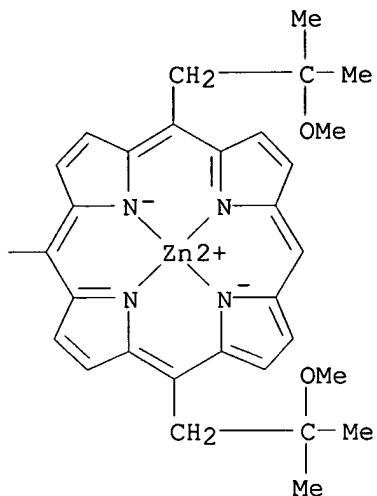
=> d 13 1-2

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L3 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 320730-70-9 REGISTRY
CN Zinc, [μ 3-[5,15-bis[[10,20-bis(2-methoxy-2-methylpropyl)-21H,23H-porphin-5-yl- κ N21, κ N22, κ N23, κ N24]ethynyl]-10,20-bis(heptafluoropropyl)-21H,23H-porphinato(6-)- κ N21, κ N22, κ N23, κ N24]]tri- (9CI) (CA INDEX NAME)
MF C90 H70 F14 N12 O4 Zn3
CI CCS
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

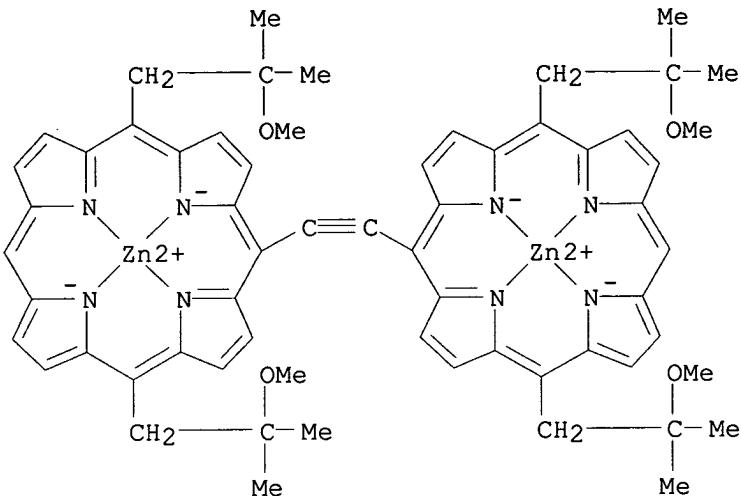
PAGE 1-A





2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPIUS (1907 TO DATE)

L3 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 320730-66-3 REGISTRY
 CN Zinc, $[\mu-[[5,5'-(1,2-ethynediyl)\text{bis}[10,20-\text{bis}(2-\text{methoxy-2-methylpropyl})-21\text{H},23\text{H}-\text{porphinato-}\kappa\text{N}21,\kappa\text{N}22,\kappa\text{N}23,\kappa\text{N}24]](4-)]\text{di-}$
 (9CI) (CA INDEX NAME)
 MF C62 H62 N8 O4 Zn2
 CI CCS
 SR CA
 LC STN Files: CA, CAPIUS, CASREACT
 DT.CA CAPIUS document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 1.40 | 171.78 |

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
 DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L3 2 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L6 1 320730-66-3/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.51 | 172.29 |

FILE 'CAPLUS' ENTERED AT 14:08:12 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L6

L7 1 L6

=> DIS L7 1
THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:820312 CAPLUS
DN 134:125155
TI Transition-Metal-Mediated [2 + 2 + 2] Cycloaddition Reactions with Ethyne-Containing Porphyrin Templates: New Routes to Cofacial Porphyrin Structures and Facially-Functionalized (Porphinato)metal Species
AU Fletcher, James T.; Therien, Michael J.
CS Department of Chemistry, University of Pennsylvania, Philadelphia, PA, 19104-6323, USA
SO Journal of the American Chemical Society (2000), 122(49), 12393-12394
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 134:125155
RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

<-----User Break----->

FILE 'REGISTRY' ENTERED AT 14:16:48 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

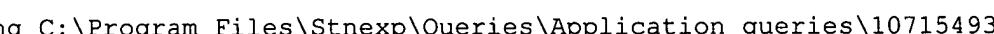
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

=>
Uploading C:\Program Files\Stnexp\Queries\Application queries\10715493e.str



```

chain nodes :
48 49 50 51 52 53 54 55 56 57
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 58
chain bonds :
6-53 17-52 23-48 30-55 41-54 48-49 49-50 50-51 51-56 56-57 57-58
ring bonds :
1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13
12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22
22-24 25-26 25-29 25-47 26-27 27-28 28-29 28-30 30-31 31-32 31-33 32-35
33-34 34-35 35-58 36-37 36-40 36-47 37-38 38-39 39-40 39-41 41-42 42-43
42-44 43-46 44-45 45-46 46-58

```

exact/norm bonds :
7-8 8-11 12-16 15-16 31-32 32-35 36-40 39-40
exact bonds :
6-53 17-52 23-48 30-55 41-54 48-49 49-50 50-51 51-56 56-57 57-58
normalized bonds :
1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-9 9-10 10-11 11-24 12-13 12-23
13-14 14-15 15-17 17-18 18-19 18-20 19-22 20-21 21-22 22-24 25-26 25-29
25-47 26-27 27-28 28-29 28-30 30-31 31-33 33-34 34-35 35-58 36-37 36-47
37-38 38-39 39-41 41-42 42-43 42-44 43-46 44-45 45-46 46-58

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
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47:Atom 48:CLASS 49:CLASS 50:CLASS 51:CLASS 52:CLASS 53:CLASS 54:CLASS
55:CLASS 56:CLASS 57:CLASS 58:Atom

L8 STRUCTURE UPLOADED

=> que L8

L9 QUE L8

=> s 19 sss full
FULL SEARCH INITIATED 14:17:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 426 TO ITERATE

100.0% PROCESSED 426 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L10 0 SEA SSS FUL L8

=>